

Golden Valley Ranch Standard Drawings

I. Road Sections

- A. Typical Local Street
- B. Typical Collector Street
- C. Typical Entry Street
- D. Typical Minor Arterial Street Fronting Golf Course
- E. Typical Minor Arterial Street
- F. Typical Minor Arterial Street with Median
- G. Typical Loop Road #1 Street
- H. Typical Loop Road #2 Street
- I. Major Arterial
 - 1. Typical Major Arterial Street
 - 2. Typical Intermediate Major Arterial Street
- J. Typical 100' Right-of-Way Half Street
- K. Typical Alley Street

II. Wall and Fence Details

- A. Wrought Iron Fence
- B. Easement Detail/Removable Bollards
- C. CMU Block Retaining Wall Details
 - 1. Retaining/Screen Wall Detail
 - 2. Drain/Construction Joint Detail
- D. Concrete Retaining Walls

- 1 Types 1A & 1B Cantilever Concrete Retaining
- 2 Type 2 Cantilever Concrete Retaining Wall
- 3 Cantilever Concrete Retaining Wall Detail No. 1
- 4 Cantilever Concrete Retaining Wall Detail No. 2
- 5 Cantilever Concrete Retaining Wall Detail No. 3

III. Lot Details

- A. Typical Lot Grading
- B. Typical Lot Setbacks
- C. Rear Yard Sections at Perimeter Street/Boundary
- D. Rear Yard Section with Scarp/at Golf Course
- E. Side Yard Retaining/No Retaining
- F. Side Yard Corner Lots at Collector Retaining/No Retaining
- G. Side Yard Corner Lots Retaining/No Retaining

IV. Street Lights

- A. Street Light Conduit and Pole Locations
- B. Street Light Standards
- C. Street Light Base Detail
- D. Pull Box Details
- E. Pull Box Locations
- F. Single Meter Service Pedestal
- G. Service Meter Pedestal Setback
- H. Service Pedestal Foundations

V. Curb and Sidewalk

- A. Sidewalk Details
 1. Expansion/Contraction Joints

2. Driveways Residential/Commercial

B. Curb Cuts for Drainage

C. Sidewalk Ramp Type D

D. Curb

1. Vertical Curb (Type A)/24" Roll Curb (Type C & D)/Ribbon Curb

2. 30" Roll Curb

3. Transition from Vertical Curb (Type A) to Roll Curb

4. Scuppers

VI Valley Gutter

VII. Storm Drain

A. Modified Type "D" Drop Inlet in Sump/on Grade

B. Culvert Headwalls 17" x 13" CMAP to 83" x 57" CMAP

C. Culvert Headwalls 48" CMP to 72" CMP

D. Estimate of Quantities Type 1 Headwall

E. Metal End Sections 12" CMP to 84" CMP and 17" x 13" CMAP to 83" x 57" CMAP

F. RCP End Section 18" RCP to 54" RCP

G. Method of Extending RCB Culverts

H. Culvert Headwalls 42" RCP to 72" RCP

I. Culvert Headwalls 23" x 14" Oval RCP to 60" x 38" Oval RCP

J. Culvert Headwalls 68" x 43" Oval RCP to 91" x 58" Oval RCP

K. Pre-cast Concrete Box Culvert

L. RCB Culverts, General Notes

M. RCB Culverts Type I Headwalls

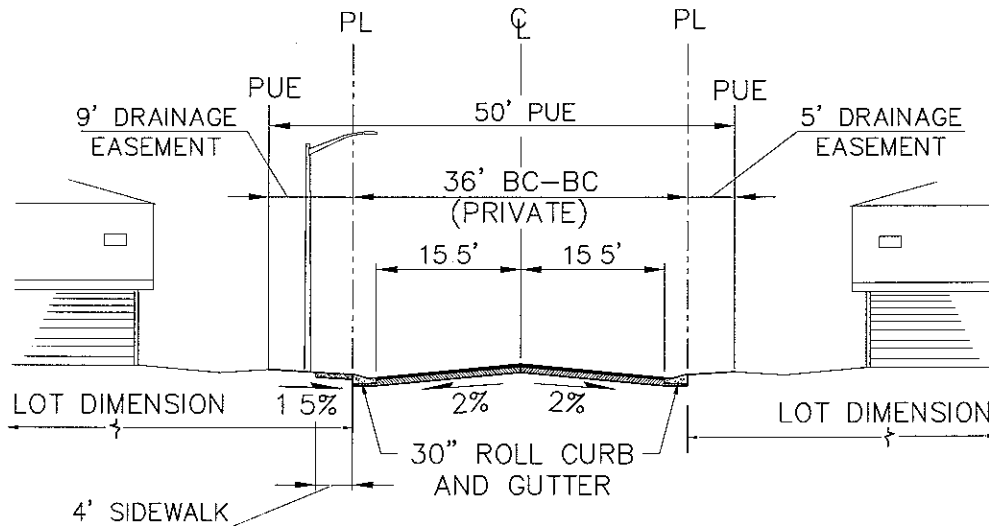
N. RCB Culverts Type II Headwalls (Sheet 1)

O. RCB Culverts Type II Headwalls (Sheet 2)

- P. Single RCB Culverts
- Q. Double RCB Culverts
- R. Additional Cell to be used with Double RCB Culverts to provide for Multiple Cell Culverts
- S. Toe Protection
- T. Conduit Outlet Erosion Protection

VIII. Utilities

- A. Utility Locations
 - 1. Typical Water and Sanitary Sewer Main Line Section
 - 2. Typical Underground Utility Locations in Residential Street
 - 3. Typical Water and Sanitary Sewer Laterals
 - 4. Typical Fire Hydrant Locations
- B. Pre-cast Concrete Sewer Manhole
- C. Water Service Installation 5/8", 3/4", 1" Meter Sizes Unimproved Area



TYPICAL LOCAL STREET SECTION
(PRIVATE) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
HOMEOWNER ASSOCIATION

**RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH**

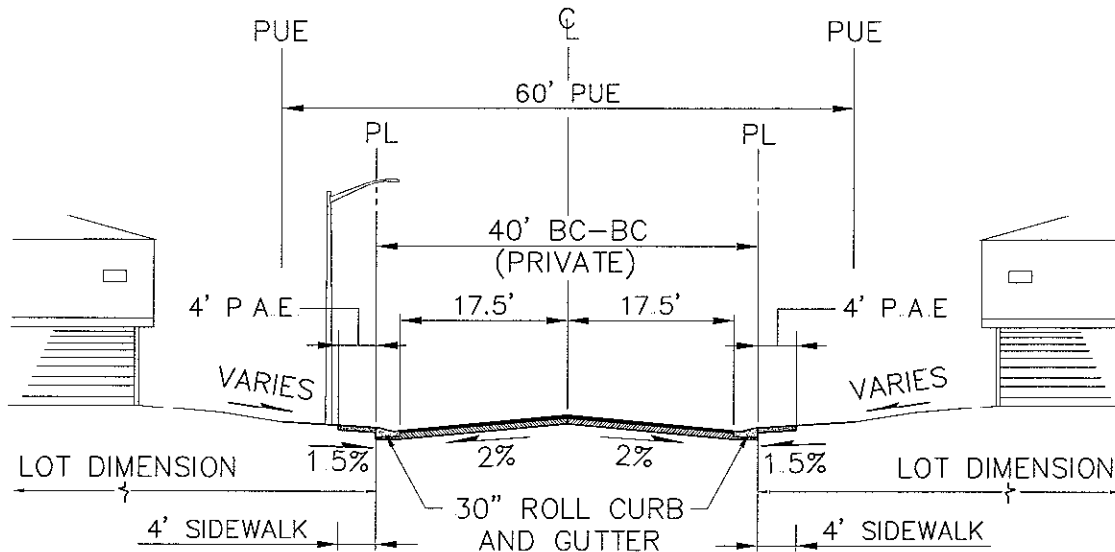


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LAS VEGAS NEVADA 89119
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FIGURE I-A

DATE: 20 DEC 2005
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TYPICAL COLLECTOR STREET SECTION
(PRIVATE) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
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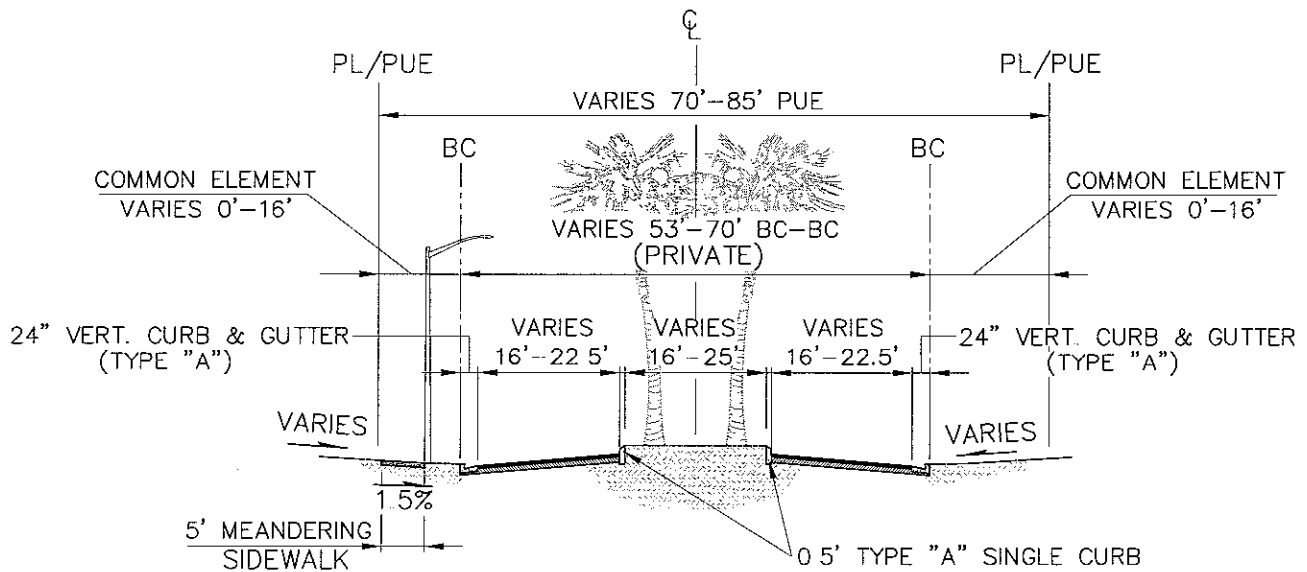


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FIGURE I-B

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TYPICAL ENTRY STREET SECTION
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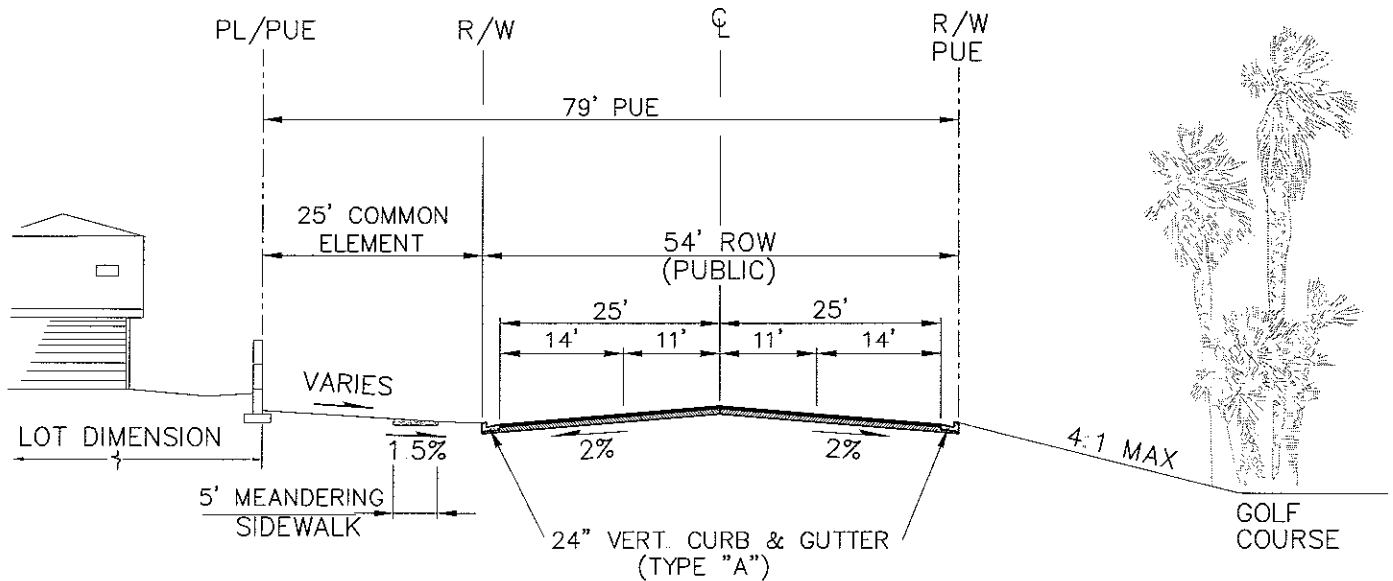


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FIGURE I-C

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**TYPICAL MINOR ARTERIAL STREET
SECTION FRONTING GOLF COURSE**
(PUBLIC) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
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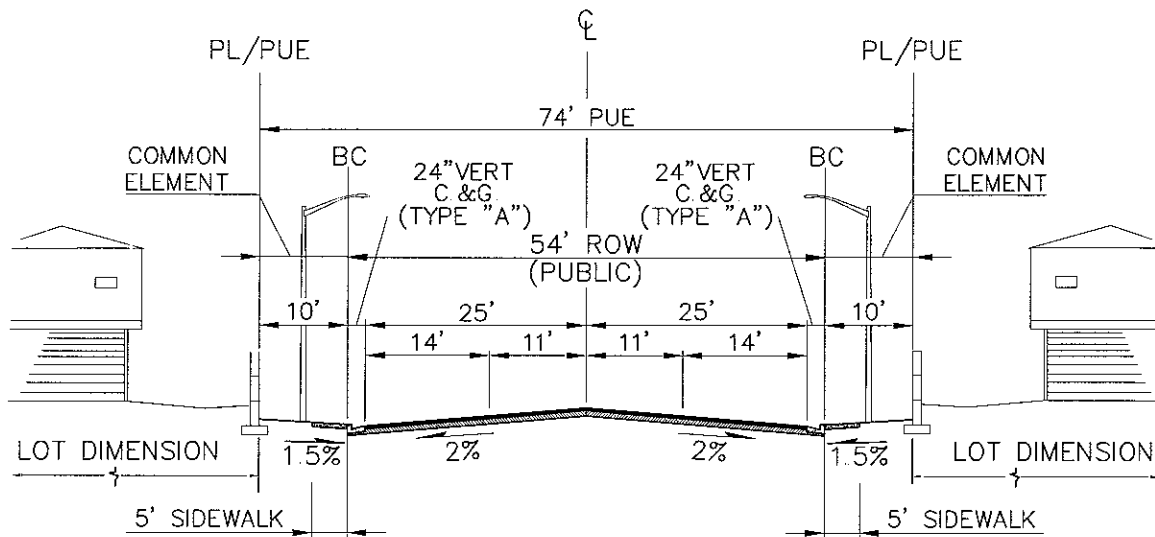


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FIGURE I-D

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TYPICAL MINOR ARTERIAL STREET SECTION
(PUBLIC) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

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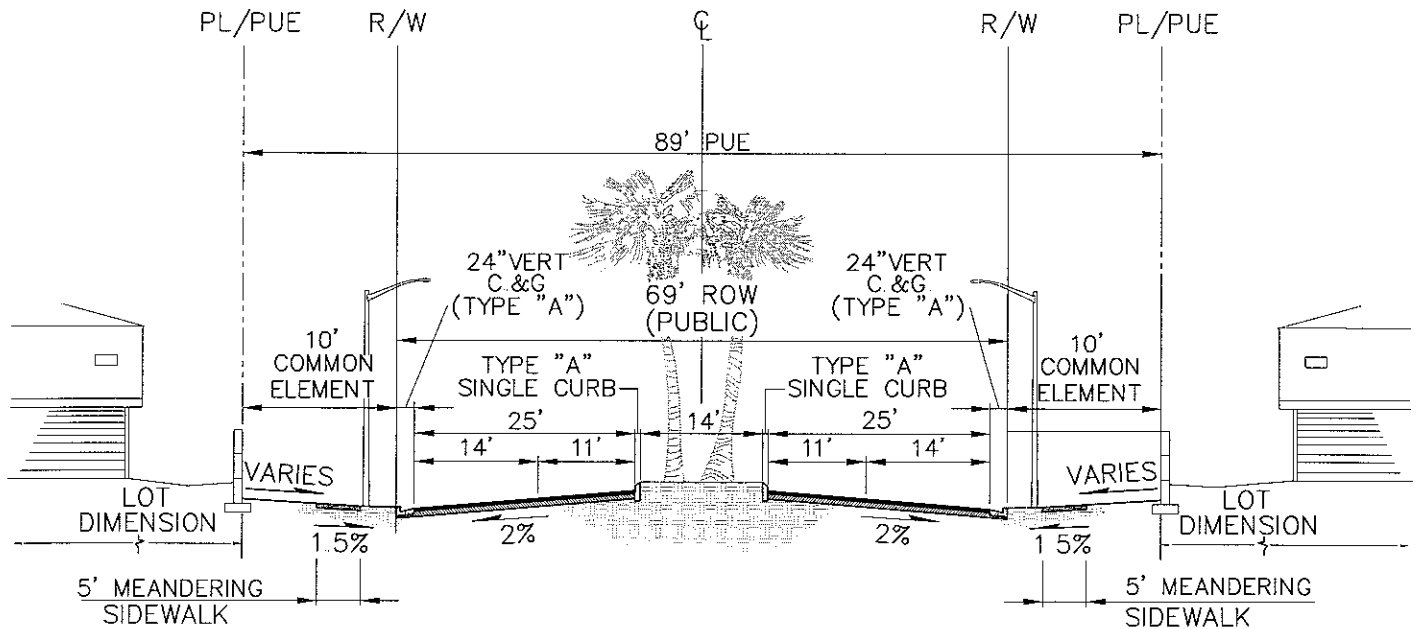


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FIGURE I-E

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**TYPICAL MINOR ARTERIAL STREET SECTION
WITH MEDIAN** (PUBLIC) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
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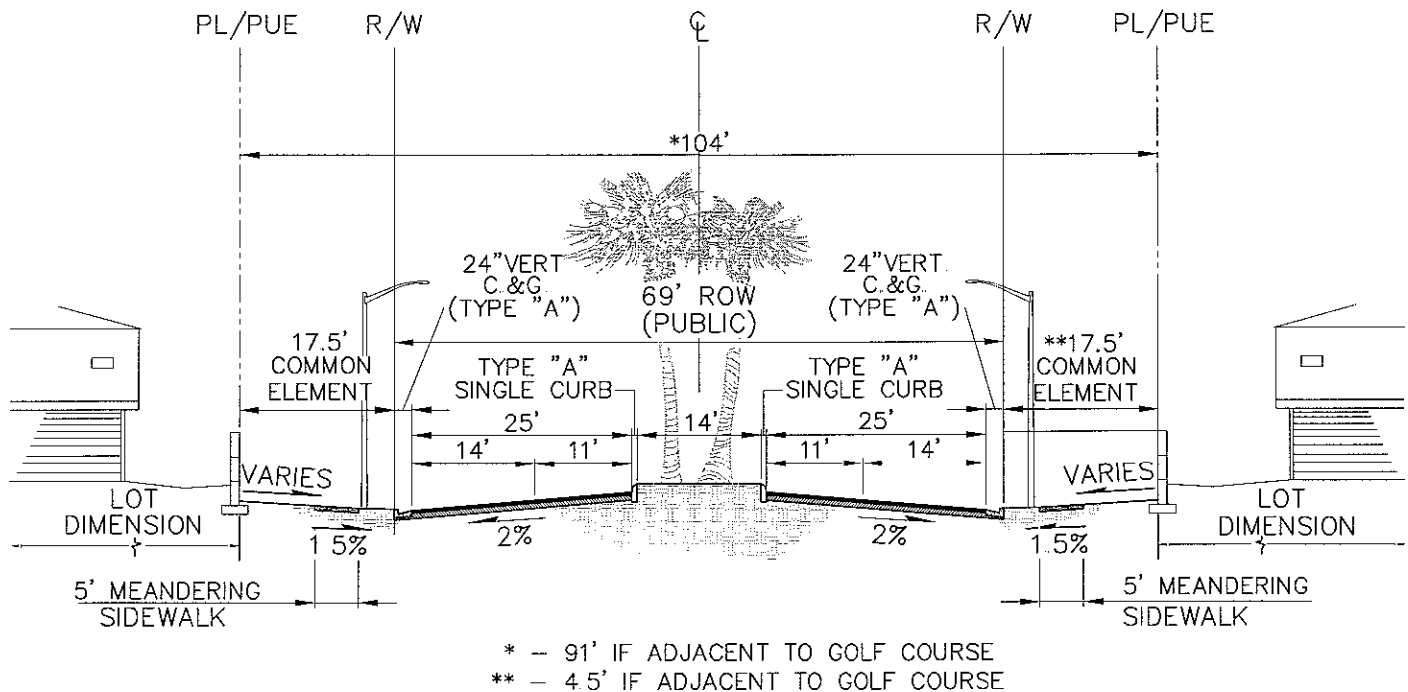


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LAS VEGAS NEVADA 89119
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FIGURE 1-F

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TYPICAL LOOP RD. #1 STREET SECTION
 (PUBLIC) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
 TO PL TO BE MAINTAINED BY MASTER
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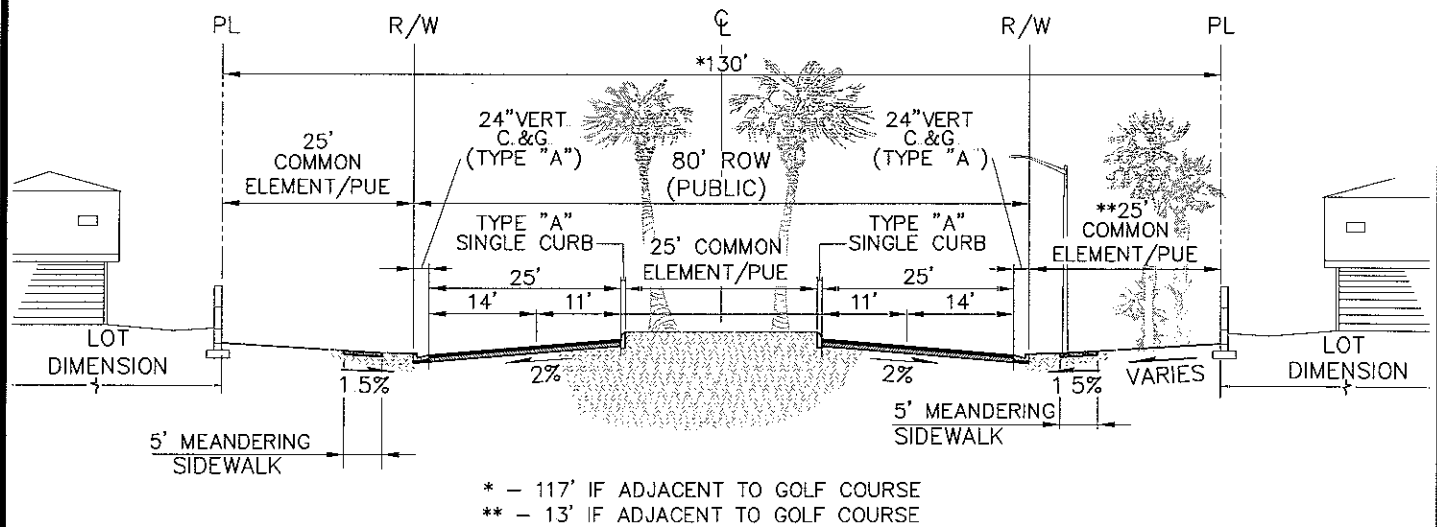


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FIGURE I-G

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TYPICAL LOOP RD. #2 STREET SECTION
 (PUBLIC) NOT TO SCALE

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 TO PL TO BE MAINTAINED BY MASTER
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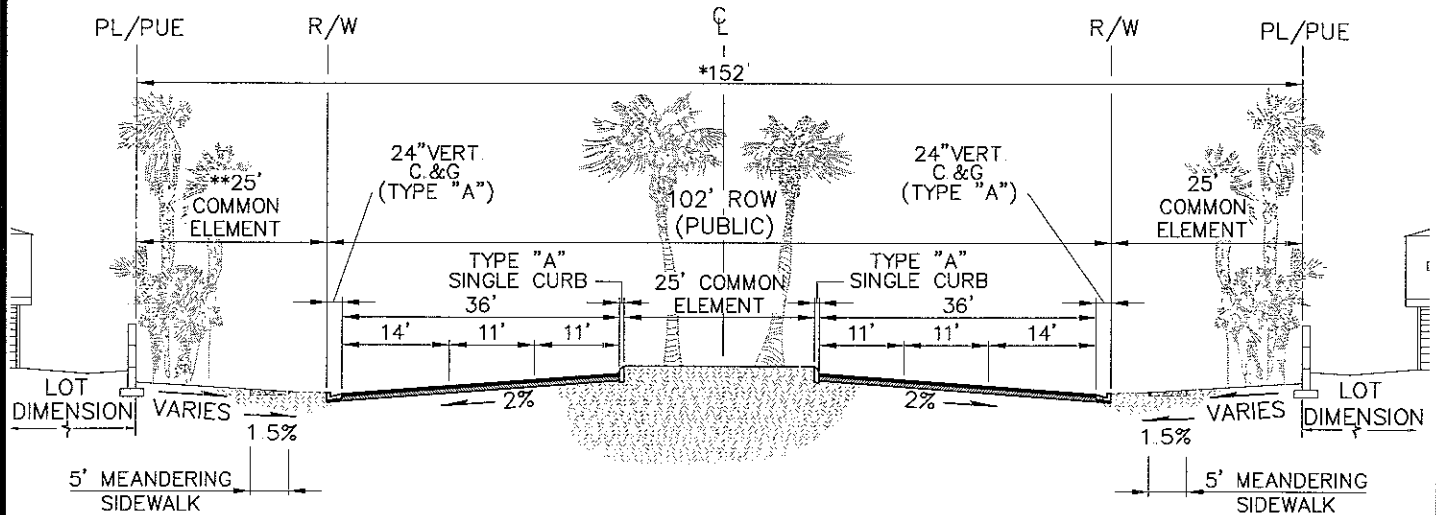


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FIGURE I-H

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* - 139' IN LOCATIONS ADJACENT TO GOLF COURSE
 ** - 12' IN LOCATIONS ADJACENT TO GOLF COURSE

TYPICAL MAJOR ARTERIAL STREET SECTION

(PUBLIC)

NOT TO SCALE

NORTH OF GOLF COURSE FROM
 ROUND-A-BOUT TO SHINARUMP

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
 TO PL TO BE MAINTAINED BY MASTER
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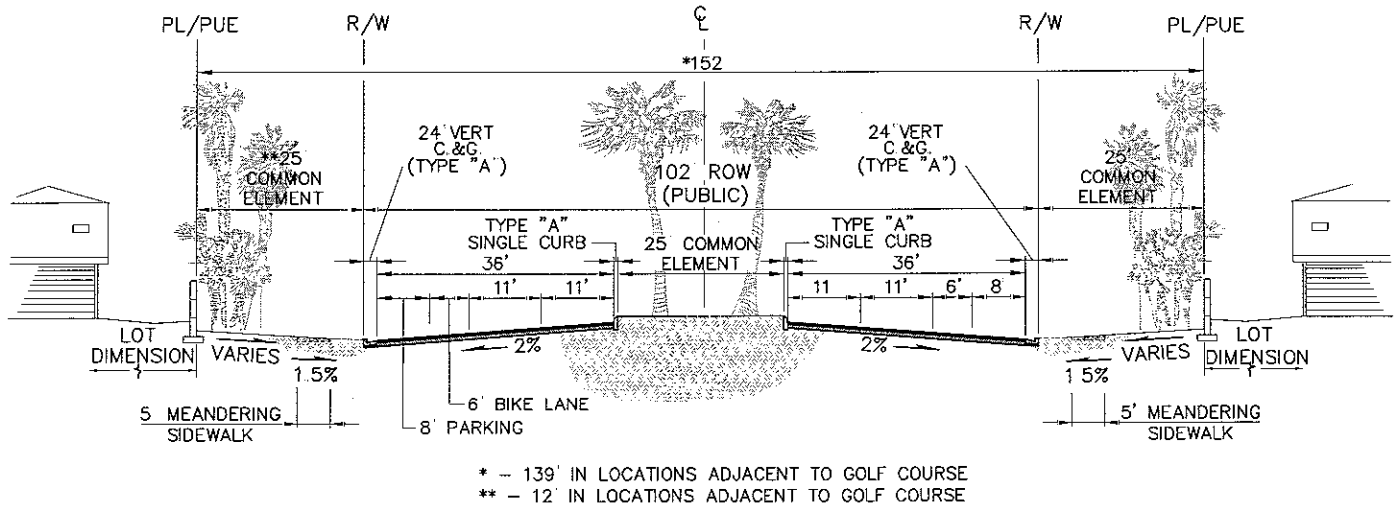


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FIGURE I-I-1

DATE: 20 DEC 2005
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TYPICAL INTERMEDIATE MAJOR ARTERIAL STREET SECTION
 (PUBLIC) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

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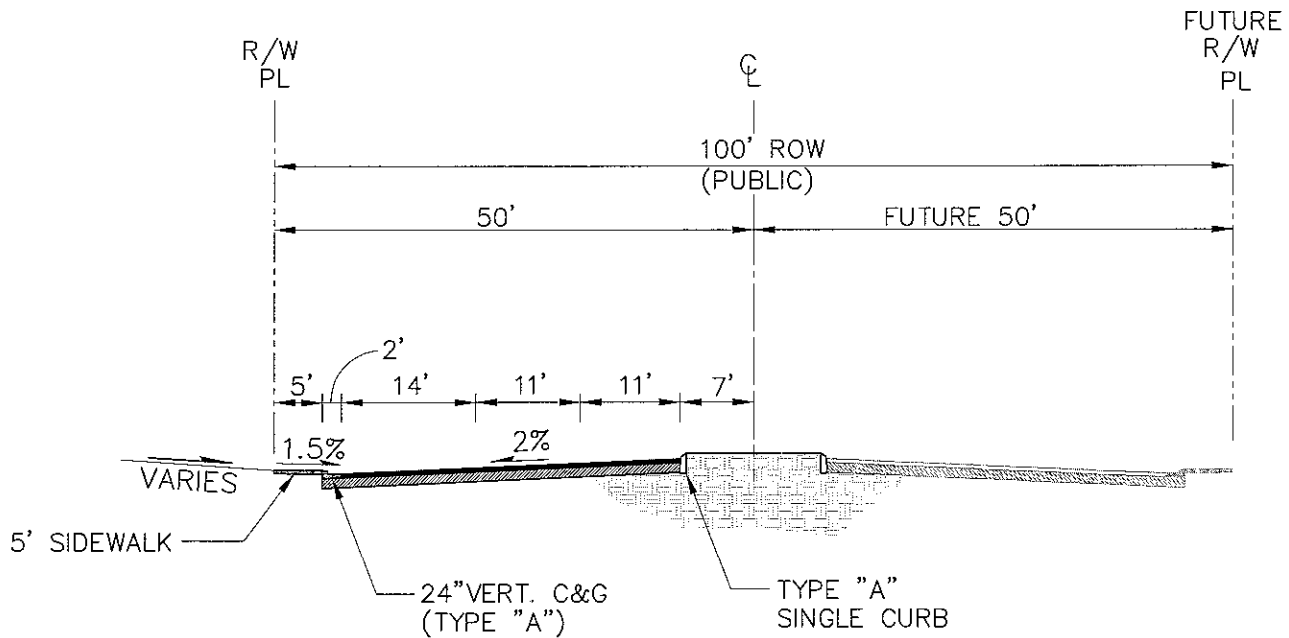


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FIGURE I-I-2

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TYPICAL 100' RIGHT-OF-WAY HALF STREET SECTION

(PUBLIC)

SECTION LINE ROADWAYS

NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
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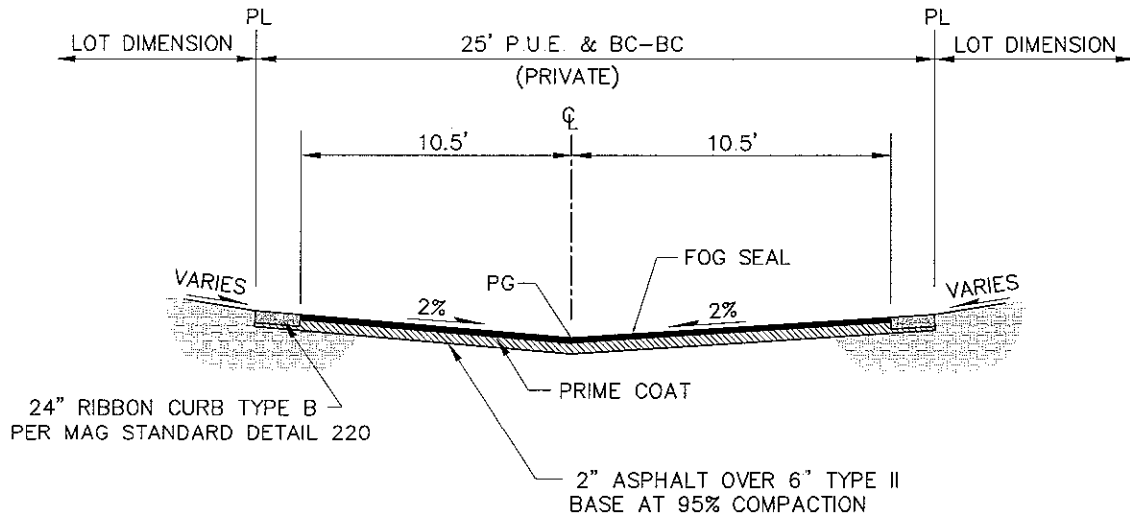
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FIGURE I-J

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TYPICAL ALLEY STREET SECTION

(PRIVATE) NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL TO PL TO BE MAINTAINED BY MASTER HOMEOWNER ASSOCIATION

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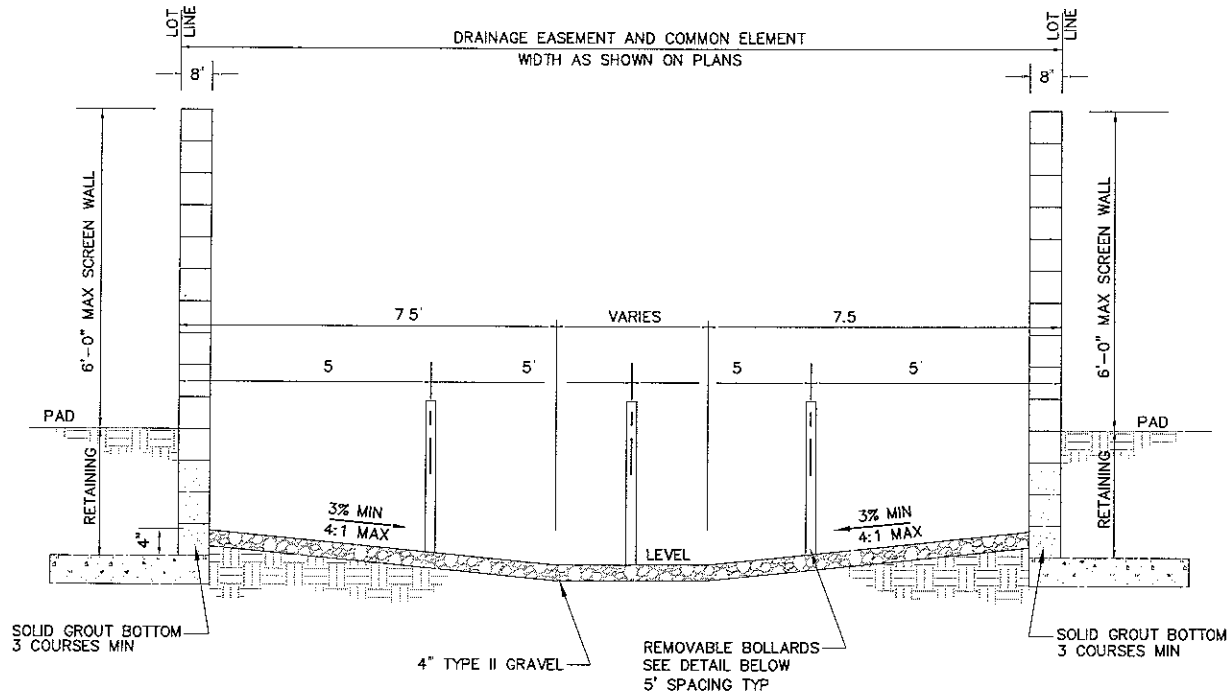


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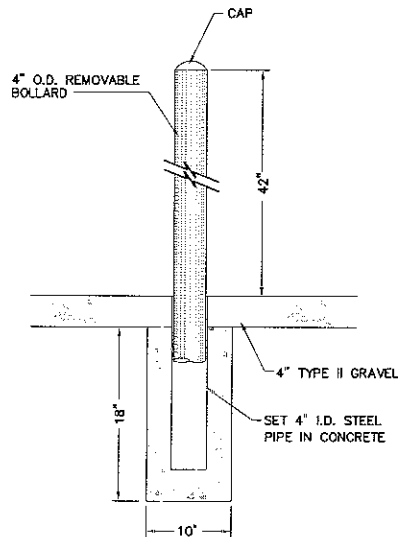
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FIGURE I-K

DATE: 20 DEC 2005
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**DRAINAGE EASEMENT
TO BE PRIVATELY MAINTAINED**
N.T.S.



REMOVABLE BOLLARD DETAIL
N.T.S.

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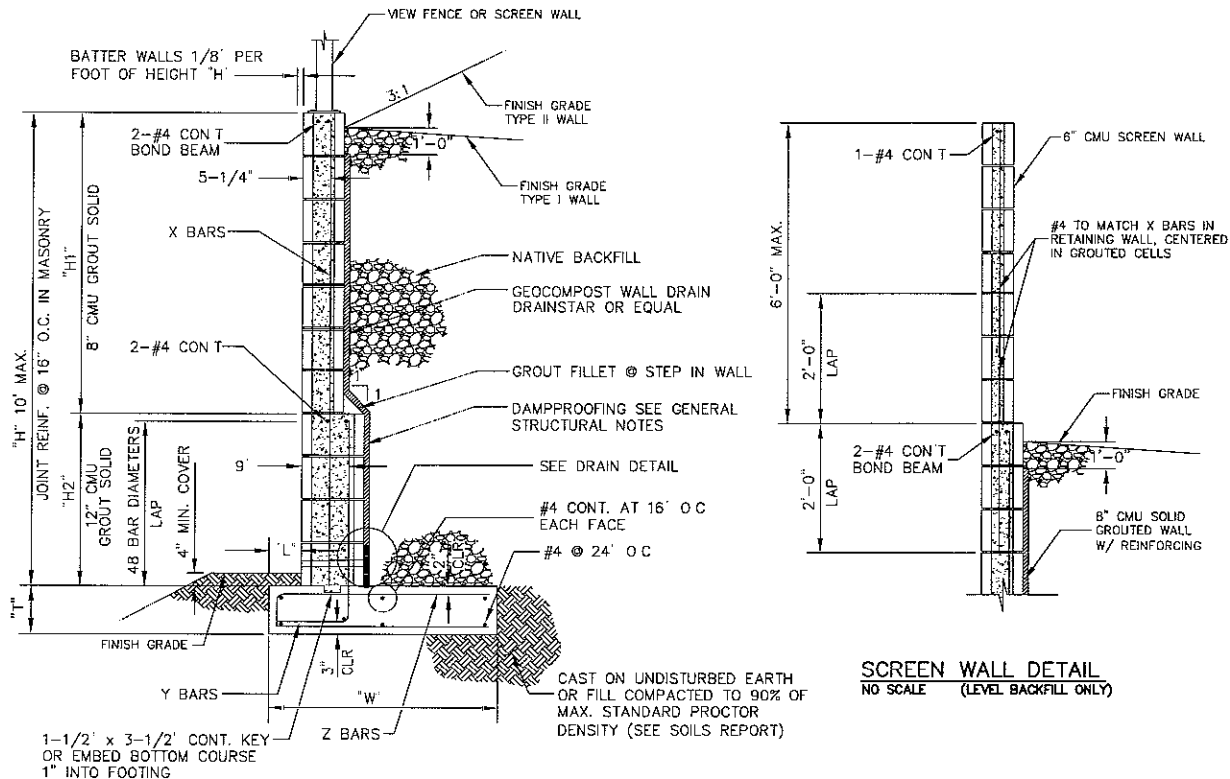


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FIGURE II-B

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TYPE I DIMENSIONS - LEVEL BACKFILL									
H	H1	H2	W	T	L	X BARS	Y BARS	Z BARS	
WALLS NOT REQUIRING SPECIAL INSPECTION									
2'-0"	2'-0"	-	2'-6"	12"	9"	#4 @ 48"	#4 @ 48"	#4 @ 24"	
2'-8"	2'-8"	-	2'-6"	12"	9"	#4 @ 48"	#4 @ 48"	#4 @ 24"	
3'-4"	3'-4"	-	2'-6"	12"	9"	#4 @ 48"	#4 @ 48"	#4 @ 24"	
4'-0"	4'-0"	-	2'-9"	12"	9"	#4 @ 48"	#5 @ 24"	#4 @ 24"	
4'-8"	4'-8"	-	3'-3"	12"	9"	#4 @ 48"	#5 @ 24"	#4 @ 24"	
5'-4"	5'-4"	-	3'-6"	12"	9"	#4 @ 48"	#5 @ 16"	#4 @ 16"	
WALLS REQUIRING SPECIAL INSPECTION									
6'-0"	3'-4"	2'-8"	3'-9"	12"	9"	#5 @ 48"	#5 @ 24"	#5 @ 24"	
6'-8"	4'-0"	2'-8"	4'-3"	12"	9"	#5 @ 48"	#5 @ 24"	#5 @ 24"	
7'-4"	4'-8"	2'-8"	4'-6"	12"	9"	#5 @ 48"	#5 @ 24"	#5 @ 24"	
8'-0"	5'-4"	2'-8"	4'-9"	14"	9"	#5 @ 24"	#5 @ 8"	#5 @ 16"	
8'-8"	6'-0"	2'-8"	5'-3"	14"	9"	#5 @ 8"	#5 @ 8"	#5 @ 16"	
9'-4"	6'-0"	3'-4"	5'-6"	14"	9"	#6 @ 32"	#6 @ 16"	#5 @ 16"	
10'-0"	6'-8"	3'-4"	5'-9"	16"	9"	#6 @ 24"	#6 @ 16"	#6 @ 16"	

* FOR THIS HEIGHT WALL THE X BARS MAY BE ELIMINATED BY EXTENDING THE Y BARS TO THE TOP OF THE WALL

** WHEN "H2" DOES NOT EXIST LOCATE THE Y BARS IN THE SAME POSITION AS THE X BARS. EXTEND THE Y BARS INTO THE MASONRY WALL 2'-0" MINIMUM FOR A #4 BAR 2'-6" MINIMUM FOR A #5 BAR AND 3'-0" FOR A #6 BAR

TYPE II DIMENSIONS - 3:1 SLOPING BACKFILL									
H	H1	H2	W	T	L	X BARS	Y BARS	Z BARS	
WALLS NOT REQUIRING SPECIAL INSPECTION									
2'-0"	2'-0"	-	2'-0"	12"	9"	#4 @ 48"	#4 @ 48"	#4 @ 24"	
2'-8"	2'-8"	-	2'-3"	12"	9"	#4 @ 48"	#4 @ 48"	#4 @ 24"	
3'-4"	3'-4"	-	2'-6"	12"	9"	#4 @ 48"	#4 @ 48"	#4 @ 24"	
4'-0"	4'-0"	-	2'-9"	12"	9"	#4 @ 48"	#4 @ 24"	#4 @ 24"	
4'-8"	4'-8"	-	3'-6"	12"	9"	#4 @ 48"	#4 @ 24"	#4 @ 24"	
5'-4"	5'-4"	-	4'-6"	12"	9"	#4 @ 48"	#4 @ 24"	#4 @ 16"	
WALLS REQUIRING SPECIAL INSPECTION									
6'-0"	3'-4"	2'-8"	5'-3"	12"	9"	#4 @ 40"	#4 @ 24"	#5 @ 24"	
6'-8"	4'-0"	2'-8"	6'-3"	12"	9"	#4 @ 24"	#4 @ 16"	#5 @ 16"	
7'-4"	4'-8"	2'-8"	7'-0"	12"	9"	#4 @ 16"	#5 @ 8"	#5 @ 8"	
8'-0"	5'-4"	2'-8"	7'-6"	15"	9"	#4 @ 8"	#5 @ 8"	#5 @ 8"	
8'-8"	6'-0"	2'-8"	8'-3"	18"	9"	#5 @ 8"	#5 @ 8"	#5 @ 8"	
9'-4"	6'-0"	3'-4"	9'-0"	18"	9"	#5 @ 8"	#6 @ 8"	#5 @ 8"	
10'-0"	6'-8"	4'-0"	9'-6"	21"	9"	#6 @ 8"	#6 @ 8"	#5 @ 8"	

* FOR THIS HEIGHT WALL THE X BARS MAY BE ELIMINATED BY EXTENDING THE Y BARS TO THE TOP OF THE WALL

** WHEN "H2" DOES NOT EXIST LOCATE THE Y BARS IN THE SAME POSITION AS THE X BARS. EXTEND THE Y BARS INTO THE MASONRY WALL 2'-0" MINIMUM FOR A #4 BAR 2'-6" MINIMUM FOR A #5 BAR AND 3'-0" FOR A #6 BAR

RETAINING WALL & SCHEDULE

NO SCALE

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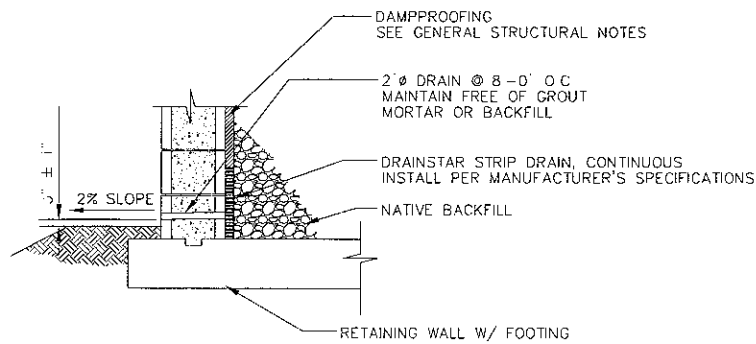


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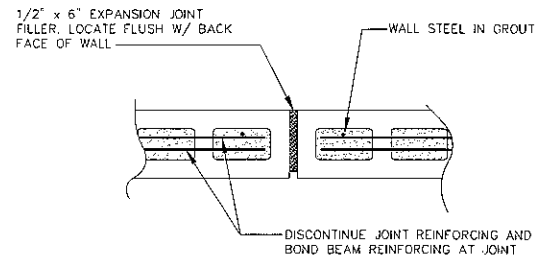
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FIGURE II-C-1

DATE: 20 DEC 2005
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DRAIN DETAIL
NO SCALE



CONSTRUCTION JOINT DETAIL
NO SCALE

GENERAL STRUCTURAL NOTES:

- 1 REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60
- 2 CONCRETE SHALL HAVE MINIMUM STRENGTH OF 3500 psi AT 28 DAYS USING TYPE V CEMENT PER ASTM C150. (DESIGN BASED ON $f'_c=2500$ psi NO SPECIAL INSPECTION REQUIRED)
- 3 MASONRY UNITS SHALL BE ASTM C90, GRADE N-1 HOLLOW CONCRETE UNITS. MASONRY DESIGN STRESS IS AS FOLLOWS: 8" CMU $f_m=1500$ psi, 12" CMU $f_m=1900$ psi. FULL STRESSES ARE USED WHERE SPECIAL INSPECTION IS SPECIFIED. SPECIAL INSPECTION SHALL BE PER THE 1997 UBC SECTION 1701
- 4 MORTAR SHALL BE ASTM C270 TYPE "M" OR "S" WITH MINIMUM STRENGTH OF 1800 psi AT 28 DAYS USING TYPE V CEMENT PER ASTM C1500
- 5 GROUT SHALL BE PER ASTM C476 WITH A MINIMUM STRENGTH OF 2000 psi AT 28 DAYS USING TYPE V CEMENT PER ASTM C-150
- 6 HORIZONTAL JOINT REINFORCING SHALL BE 9-GA. LADDER TYPE PER UBC STD 21-10 WITH LAP SPLICES OF 12" MINIMUM INCLUDING CORNERS AND INTERSECTIONS
- 7 UNLESS OTHERWISE NOTED, ALL CONSTRUCTION SHALL CONFORM TO THE UNIFORM BUILDING CODE, LATEST EDITION, AND PER STANDARD SPECIFICATIONS FOR THE CITY OF HENDERSON, NEVADA BUILDING DEPARTMENT
- 8 ALL WALLS ARE SUBJECT TO APPROVAL BY THE CITY OF HENDERSON NEVADA BUILDING DEPARTMENT
- 9 SOLID GROUT ALL MASONRY UNITS THAT ARE AT OR BELOW FINISH GRADE
- 10 ALL CORNERS OR ANGLES SHALL BE TIED TOGETHER WITH REINFORCING STEEL AND GROUTED SOLID
- 11 WHERE VERTICAL GROUT POURS ARE NOT CONTINUOUS FOR THE ENTIRE HEIGHT OF THE WALL, TERMINATE LIFT 1 1/2" BELOW TOP OF TOP BLOCK TO FORM A KEY FOR FUTURE LIFTS
- 12 LOCATE CONTROL JOINTS IN RETAINING WALL AT A MAXIMUM SPACING OF 24'-0"
- 13 BOND BEAMS AND JOINT REINFORCING SHALL NOT BE CONTINUOUS THROUGH WALL CONSTRUCTION JOINTS
- 14 WALLS SHALL BE STEPPED ONLY AS SHOWN ON THE PLANS
- 15 IF ACTUAL HEIGHT OF WALL IS NOT LISTED IN TABLE USE STEEL AND DIMENSIONS FOR NEXT HIGHEST WALL LISTED
- 16 DAMPPROOFING. DAMPPROOFING SHALL BE AS FOLLOWS:
 - A. APPLY WATCHDOG WATERPROOFING MEMBRANE, AS MANUFACTURED BY KOCH MATERIALS COMPANY, OVER SOIL SIDE OF RETAINING WALL. APPLICATION OF THE WATCHDOG WATERPROOFING MEMBRANE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS
 - B. INSTALL A 24-MIL DIMPLED HDPE MEMBRANE OVER KOCH WATCHDOG MEMBRANE. PROVIDE DELTA-MS AS MANUFACTURED BY COSELLA - DORKEN. APPLICATION OF THE DELTA-MS SYSTEM SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS DETAILS AND MATERIALS.
- 17 BACKFILL BEHIND WALLS SHALL BE COMPACTED TO 90% OF STANDARD PROCTOR DENSITY
- 18 WHERE RETAINING WALLS ARE SHOWN ON PERIMETER STREETS, USE DECORATIVE BLOCK TO MATCH THOSE OF THE PERIMETER WALLS.
- 19 SOILS REPORT PREPARED BY KLEINFELDER INC. PROJECT No 21158 DATED OCT 03 2002

ALLOWABLE SOILS BEARING PRESSURE = 2500 psf FOR 12' WIDE FOOTING PLUS 800 psf FOR EACH ADDITIONAL FOOT OF WIDTH OF FOOTING 5000 psf MAXIMUM
 SOIL ACTIVE PRESSURE = 35 psf/ft (LEVEL)
 SOIL PASSIVE PRESSURE = 300 psf/ft
 COEFFICIENT OF FRICTION = 0.40

RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH



Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE II-C-2

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**RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH**

REINFORCED CONCRETE
RETAINING WALL TYPE 2

Backfill Condition	Wall Type Required for Seismic Acceleration
Level backfill w/surcharge	0.15g 2 0.40g 2
Sloping backfill w/o surcharge	-
Slope $\leq 3:1$	2 2
$3:1 < \text{Slope} \leq 2:1$	2 *

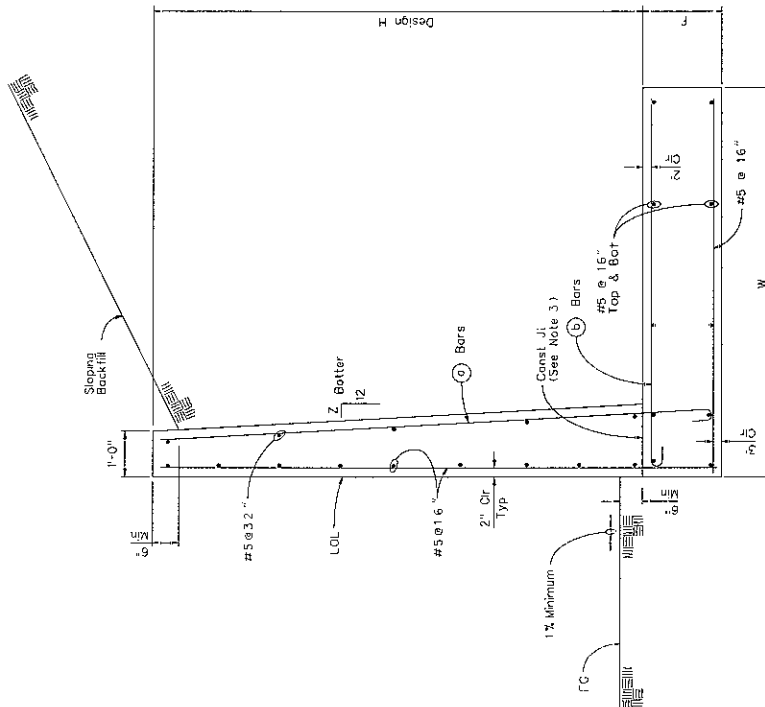
* Special design required

* Special design required

STANDARD BAR LAPS		
BAR #	UNCOATED	EPOXIED
4	20"	23"
5	26"	30"
6	31"	36"
7	36"	45"
8	51"	59"
9	59"	67"
10	75"	85"
11	91"	102"

TYPE 2 - REINFORCED CONCRETE RETAINING WALL
TABLE OF DIMENSIONS AND REINFORCING STEEL

TYPE 2 - REINFORCED CONCRETE RETAINING WALL TABLE OF DIMENSIONS AND REINFORCING STEEL									
Design H W Batter, Z @ 30° @ 45° @ 60°	4'	6'	8'	10'	12'	Reinforcing Steel			
						Level Backfill w/surcharge Level Backfill @ 0.15g Level Backfill @ 0.30g Slope 3:1 @ 0.15g Slope 3:1 @ 0.40g Slope 3:1 @ Slope 3:1 3:1 < Slope 3:1 < 2:1 @ 0.15g	Level Backfill w/surcharge Level Backfill @ 0.15g Level Backfill @ 0.30g Slope 3:1 @ 0.15g Slope 3:1 @ 0.40g Slope 3:1 @ Slope 3:1 3:1 < Slope 3:1 < 2:1 @ 0.15g	Level Backfill w/surcharge Level Backfill @ 0.15g Level Backfill @ 0.30g Slope 3:1 @ 0.15g Slope 3:1 @ 0.40g Slope 3:1 @ Slope 3:1 3:1 < Slope 3:1 < 2:1 @ 0.15g	Level Backfill w/surcharge Level Backfill @ 0.15g Level Backfill @ 0.30g Slope 3:1 @ 0.15g Slope 3:1 @ 0.40g Slope 3:1 @ Slope 3:1 3:1 < Slope 3:1 < 2:1 @ 0.15g
12'	4'-1"	5'-1"	6'-7"	8'-0"	10'-0"	12'-0"	12'	12'	12'
10'-10"	1'-4"	1'-4"	1'-6"	1'-6"	1'-6"	1'-6"	10'-10"	10'-10"	10'-10"
8'-6"	0	0	0	0	0	0	8'-6"	8'-6"	8'-6"
6'-0"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	6'-0"	6'-0"	6'-0"
4'-0"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	#5@12"	4'-0"	4'-0"	4'-0"



TYPICAL SECTION

NOTES:

1. FOR GENERAL NOTES SEE B-30.1.3
2. FOR DETAILS NOT SHOWN AND DRAINAGE REQUIREMENTS SEE SHEETS B-30.1.3 THRU B30-15.
3. ROUGHEN CONSTRUCTION JOINT SURFACE TO $\frac{1}{4}$ " AMPLITUDE.
4. GEOTECHNICAL ENGINEER WILL VERIFY MAXIMUM ALLOWABLE BEARING PRESSURES FOR ACTUAL SITE SOIL CONDITIONS.

NEVADA DEPARTMENT OF TRANSPORTATION

TYPE 2
CANTILEVER CONCRETE
RETAINING WALL

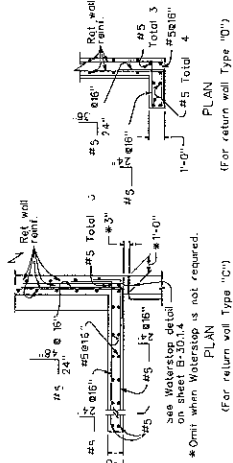
Signed Original On File	B-30.1.2	(502)
CHIEF BRIDGE ENGINEER	ADOPTED 12/02	REVISION 7/04

1. DESIGN SPECIFICATIONS: ASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1996 WITH TERMS THROUGH 2000.
2. LOADING: 1 LINE LOAD SURCHARGE PRESSURE EQUAL TO 2 FEET OF SOIL. SURCHARGE PRESSURE SHALL BE 150 \pm 45 \pm 45 PSF WHERE λ THE PEAK GROUND ACCELERATION IS USED IN THE DESIGN.
3. CONCRETE: ALL CONCRETE SHALL BE CLASS A OR AA MODIFIED (MAJORITY WITH f_c - 4000 psi AT 28 DAYS).
4. REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 OR A706.
5. DESIGN DATA: CANTILEVER WALLS ARE DESIGNED BASED ON THE FOLLOWING PARAMETERS:
 - SOL PROPERTIES:
 - INTERNAL ANGLE OF FRICTION - 35°
 - UNIT WEIGHT - 120 pcf
 - SOIL SURFACE FRICTION - 35 pcf (LEVEL BACKFILL)
 - EQUIV. PASSIVE FLUID PRESS. - 350 pcf (TOP OF FOOTING DOWN)
 - EQUIV. PASSIVE FLUID PRESS. - 350 pcf (TOP OF FOOTING DOWN)
 - COEFFICIENT OF FRICTION BETWEEN SOIL AND CONCRETE - 0.45
6. WALL PROPERTIES:
 - STATIC DESIGN BASED ON ALLOWABLE STRESS DESIGN
 - f_c - 1.8 ksi
 - f_s - 24 ksi
 - n - 8
 - SEISMIC DESIGN BASED ON LOAD FACTOR DESIGN
 - f_c - 1.5 ksi
 - f_s - 24 ksi
 - IV - 60 ksi
7. FACTORS OF SAFETY APPLIED
 - STATIC SLIDING - 2.0
 - STATIC SLIDING - 1.5
 - SEISMIC OVERTURNING - 1.5
 - SEISMIC SLIDING - 1.1
8. RETURN WALLS: RETURN WALL NOT REQUIRED UNLESS SHOWN IN PLANS. FOR DIMENSION (D), SEE PROJECT PLANS.
9. DRAINAGE: DRAINAGE SYSTEM (GUTTER, DRAIN, PIPE) NOT REQUIRED UNLESS SPECIFIED IN THE PLANS.

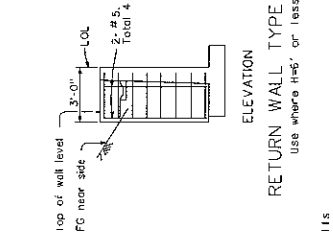
[illegible]

STEM HAUNCH FOR BARRIER RAIL

Dimension ① (barrier rail width) to be as shown in the Project Plans. Stom width ② at base of haunch to be determined as shown.

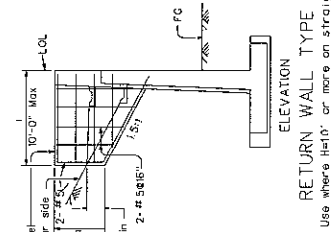


PLAN
(For return wall Type "0")



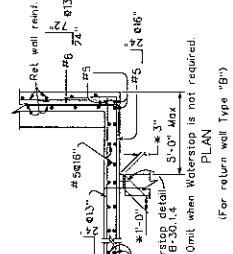
ELEVATION

RETURN WALL TYPE "D"
Use where H=6' or less

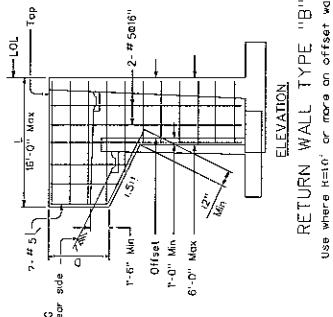


ELEVATION

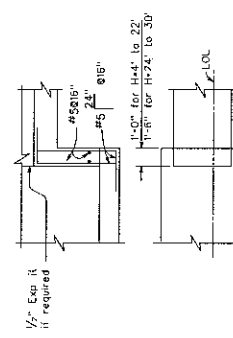
RETURN WALL TYPE "C"
where $H=10'$ or more on straight wall



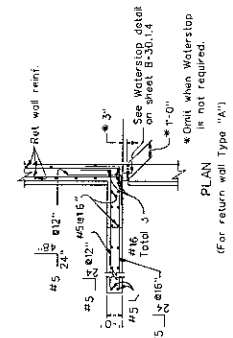
PLAN
(For return wall Type "B")

ELEVATION

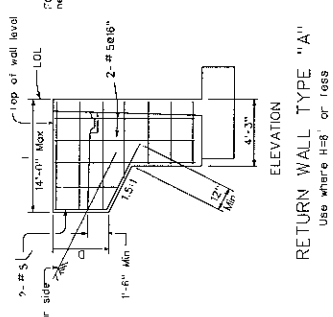
RETURN WALL TYPE "B"
Use where $k=10'$ or more on offset walls



FOOTING STEP



PLAN
(For return wall Type "A")



ELEVATION

RETURN WALL TYPE "A"
Use where H=8' or less

NEVADA DEPARTMENT OF TRANSPORTATION

CANTILEVER CONCRETE
RETAINING WALL

Signed Original On File	B-30.1.3	(502)
CHIEF BRIDGE ENGINEER	ADOPTED	REVISION
		12/02

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GOLDEN VALLEY RANCH

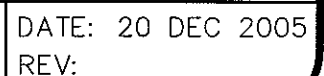


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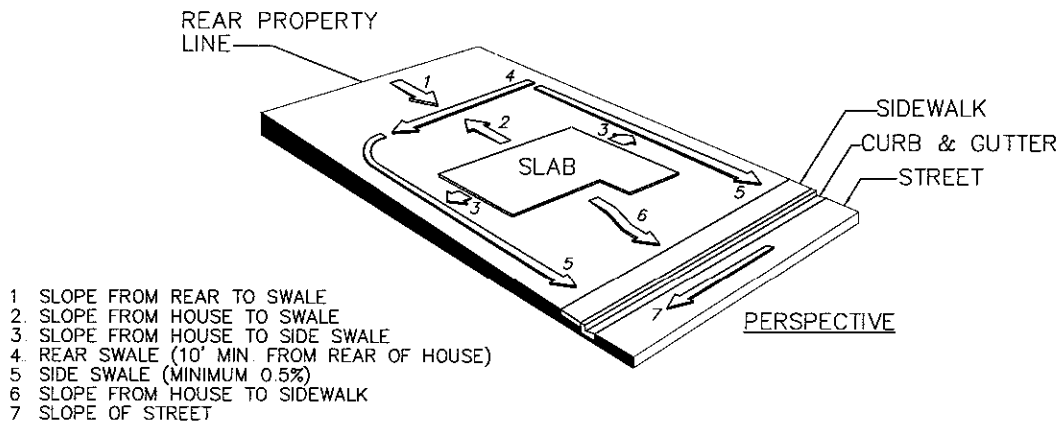
SCALE: NOT TO SCALE

FIGURE II-D-3

DATE: 20 DEC 2005
REV:



DATE: 20 DEC 2005
REV:



TYPICAL LOT GRADING

N.T.S

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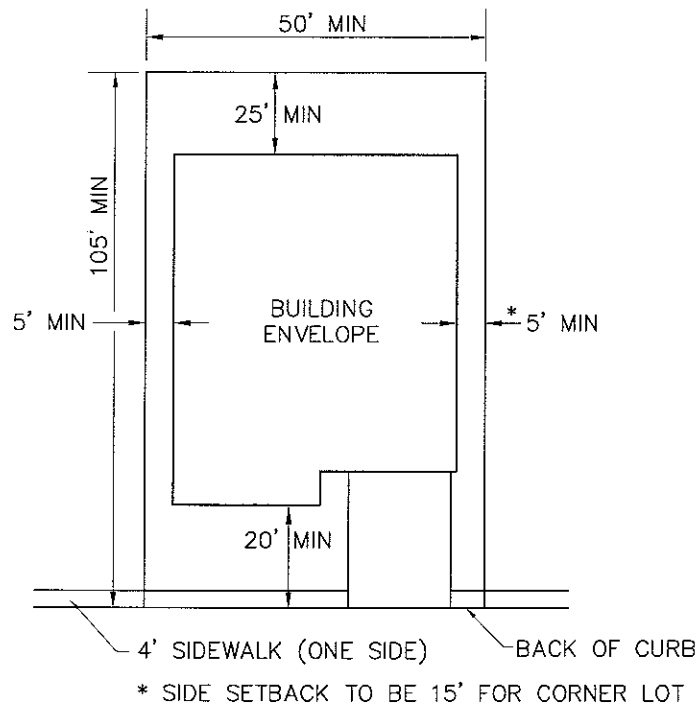


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SCALE: NOT TO SCALE

FIGURE III-A

DATE: 20 DEC 2005
REV:



TYPICAL SETBACKS FOR ALL LOTS

NTS

RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH



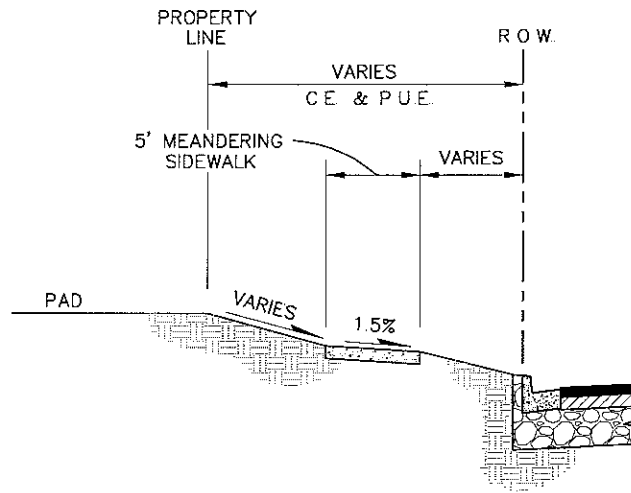
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SCALE: NOT TO SCALE

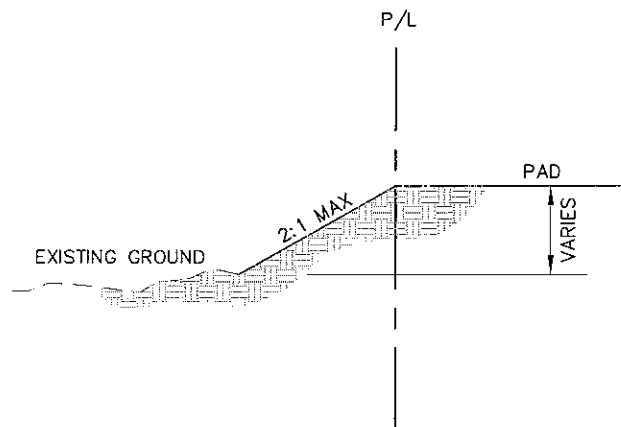
FIGURE III-B

DATE: 20 DEC 2005
REV:

LOT GRADING DETAILS



REAR YARD SECTION AT PERIMETER STREET
N.T.S.



REAR YARD SECTION AT PERIMETER BOUNDARY
N.T.S.

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GOLDEN VALLEY RANCH



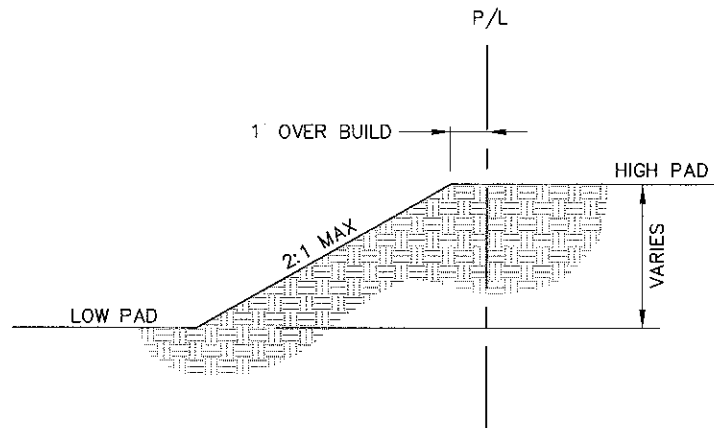
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SCALE: NOT TO SCALE

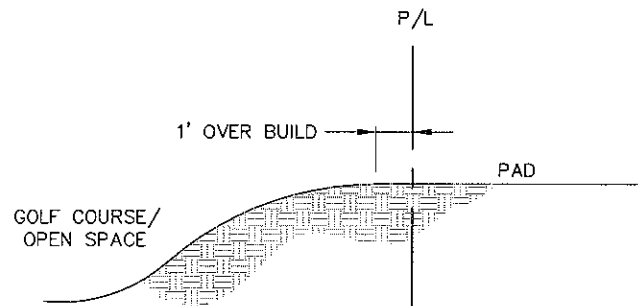
FIGURE III-C

DATE: 20 DEC 2005
REV:

LOT GRADING DETAILS



REAR YARD SECTION WITH SCARP
N.T.S.



**REAR YARD SECTION AT GOLF
COURSE / OPEN SPACE**
N.T.S.

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GOLDEN VALLEY RANCH



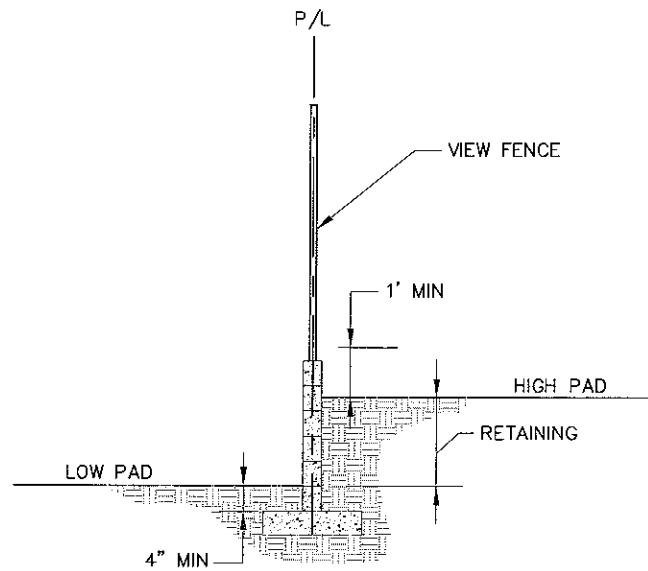
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SCALE: NOT TO SCALE

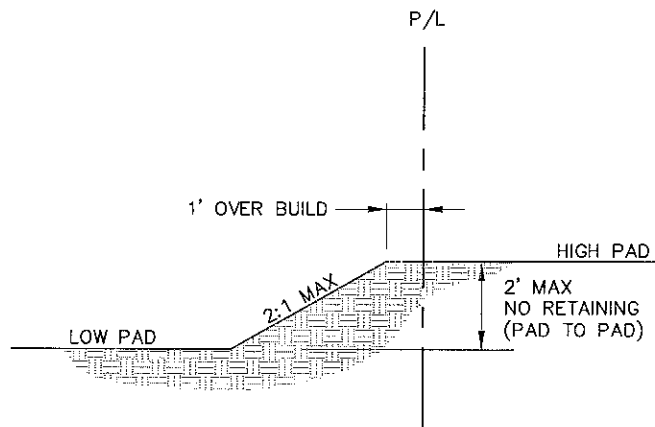
FIGURE III-D

DATE: 20 DEC 2005
REV:

LOT GRADING DETAILS



REAR / SIDE YARD SECTION WITH RETAINING
N.T.S.



SIDE YARD SECTION - NO RETAINING
N.T.S.

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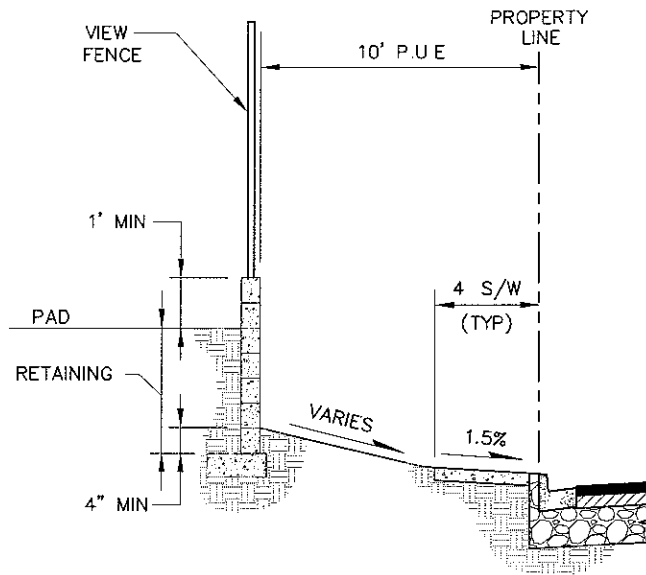
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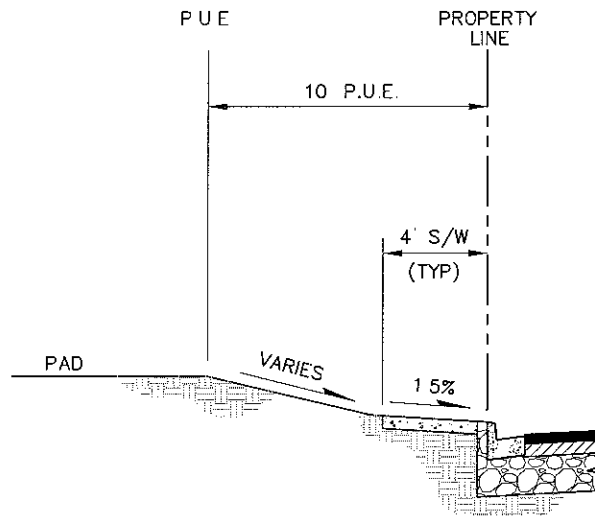
FIGURE III-E

DATE: 20 DEC 2005
REV:

LOT GRADING DETAILS



**SIDE YARD CORNER LOT SECTION AT
COLLECTOR WITH RETAINING**
N.T.S



**SIDE YARD CORNER LOT SECTION AT
COLLECTOR - NO RETAINING**
N.T.S

RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH



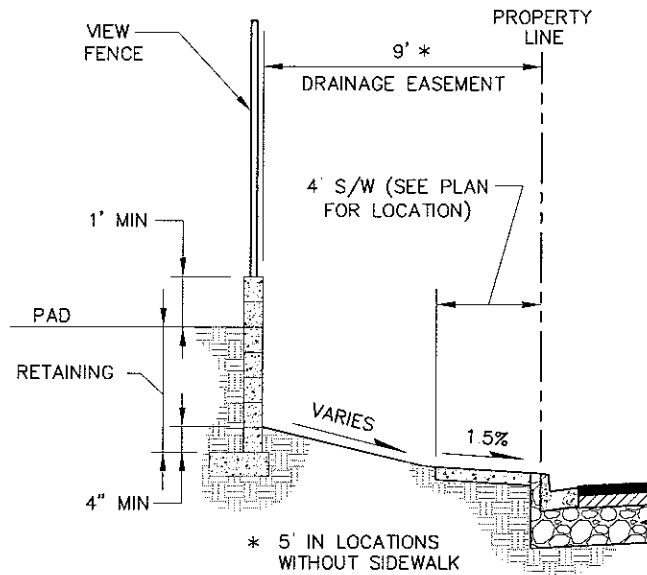
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SCALE: NOT TO SCALE

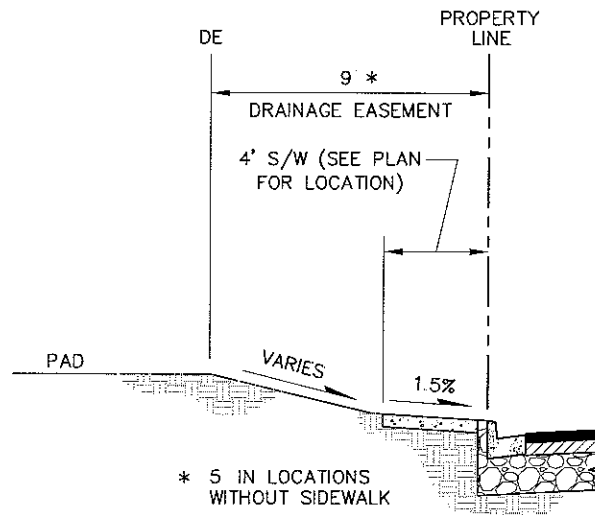
FIGURE III-F

DATE: 20 DEC 2005
REV:

LOT GRADING DETAILS



**SIDE YARD CORNER LOT SECTION
WITH RETAINING**
N.T.S.



**SIDE YARD CORNER LOT SECTION
NO RETAINING**
N.T.S.

RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH

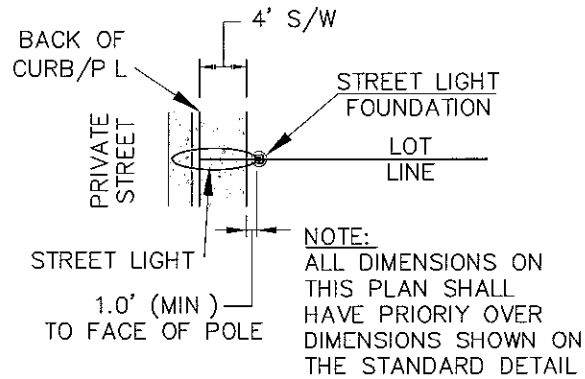


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SCALE: NOT TO SCALE

FIGURE III-G

DATE: 20 DEC 2005
REV:



NOTE:
IN LOCATIONS WHERE LIGHT POLE IS NOT
ADJACENT TO A SIDEWALK, FACE OF POLE TO
BE 3' FROM BACK OF CURB

STREETLIGHT LOCATION
N.T.S

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GOLDEN VALLEY RANCH

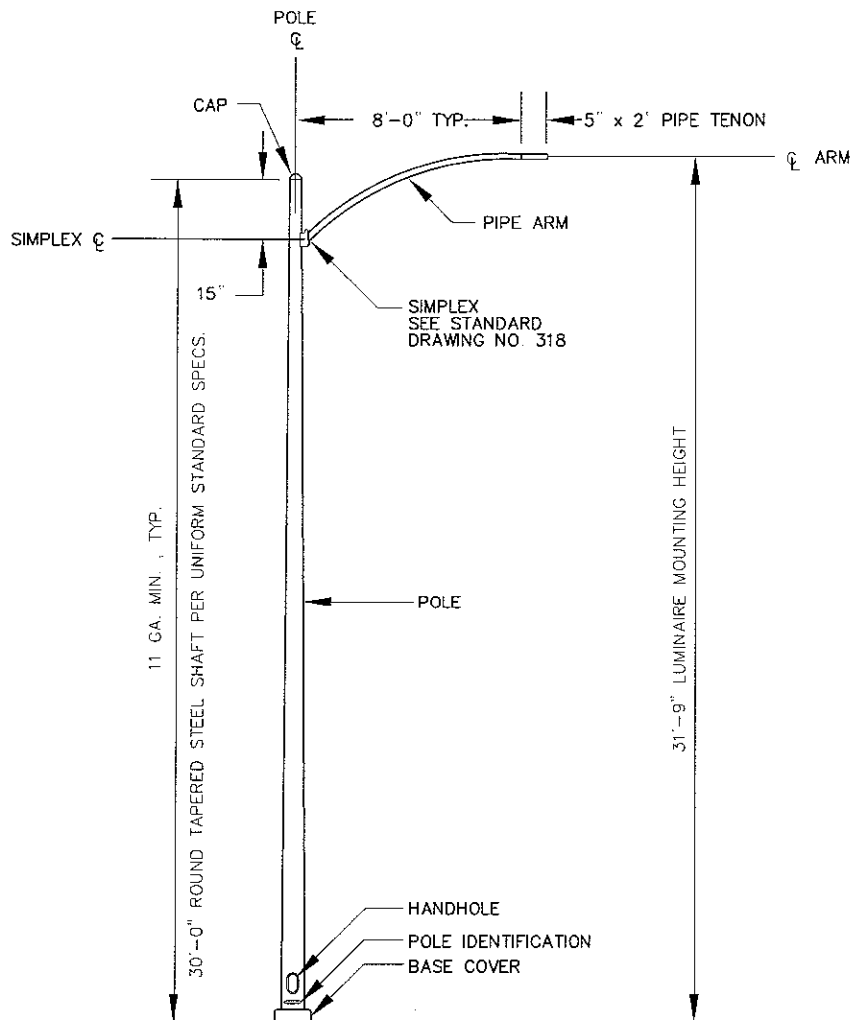


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SCALE: NOT TO SCALE

FIGURE IV-A

DATE: 20 DEC 2005
REV:

**NOTES:**

1. SEE GENERAL NOTES STANDARD DRAWING NO. 313.
2. SEE STANDARD DRAWING NO. 319 FOR DETAIL OF POLE BASE
3. SEE STANDARD DRAWING NO. 318 FOR DETAIL OF POLE CAP.

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
506	STEEL STRUCTURES	STREETLIGHT STANDARD WITH 2" PIPE ARM	
623	TRAFFIC SIGNALS & STREETLIGHTING		
715	GALVANIZING		
		DATE 12-12-96	DWG. NO. 314 PAGE NO. 74

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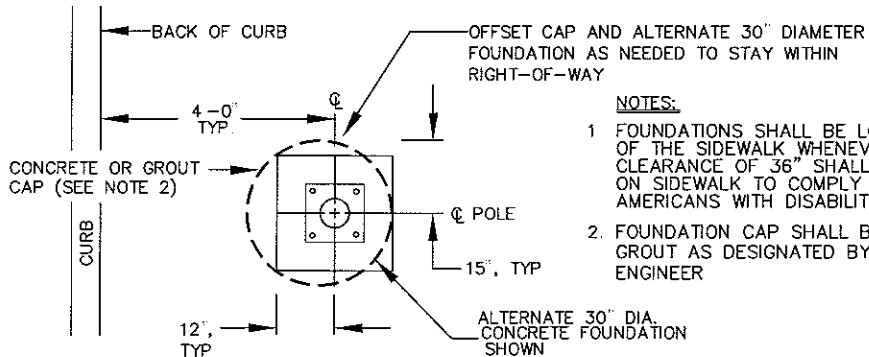
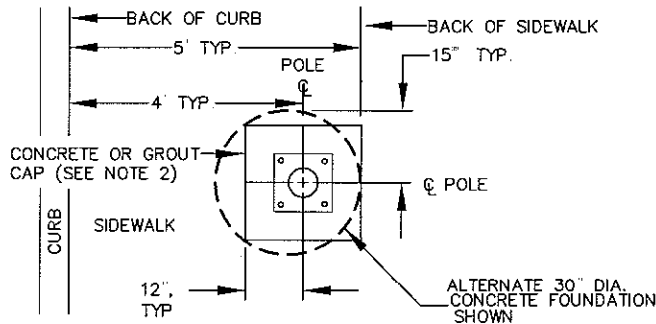
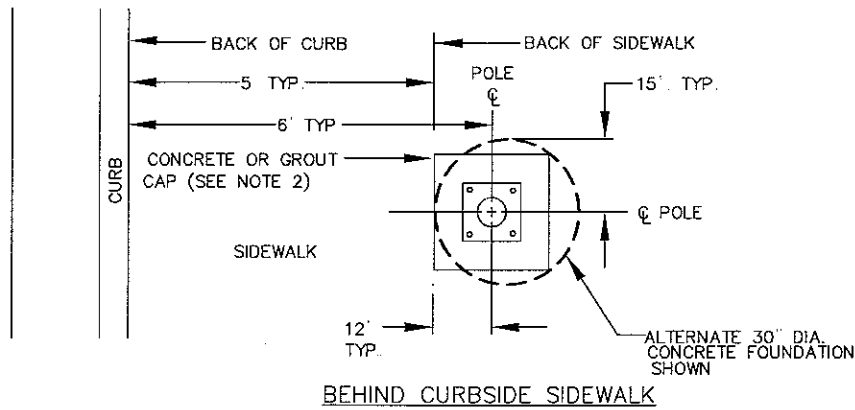
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SCALE: NOT TO SCALE

FIGURE IV-B

DATE: 20 DEC 2005
REV:



NOTES:

1. FOUNDATIONS SHALL BE LOCATED OUTSIDE OF THE SIDEWALK WHENEVER FEASIBLE. A CLEARANCE OF 36\"
2. FOUNDATION CAP SHALL BE CONCRETE OR GROUT AS DESIGNATED BY THE ENTITY ENGINEER

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
501	PORTLAND CEMENT CONCRETE	LIGHTING STANDARD SETBACK	
623	TRAFFIC SIGNALS & STREETLIGHTING		
		DATE 7-8-04	DWG. NO. 320 PAGE NO. 80

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GOLDEN VALLEY RANCH**

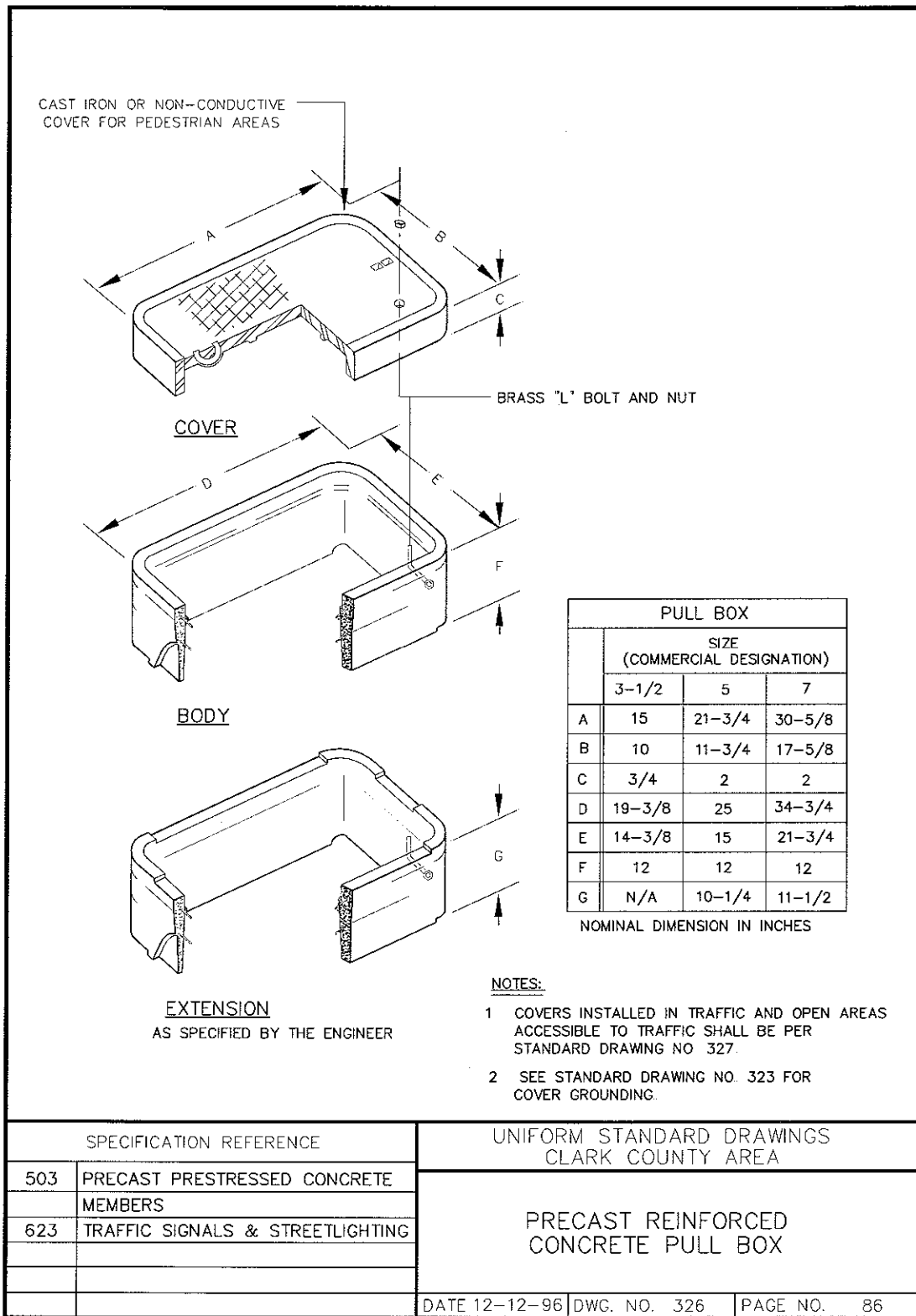


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SCALE: NOT TO SCALE

FIGURE IV-C

DATE: 20 DEC 2005
REV:



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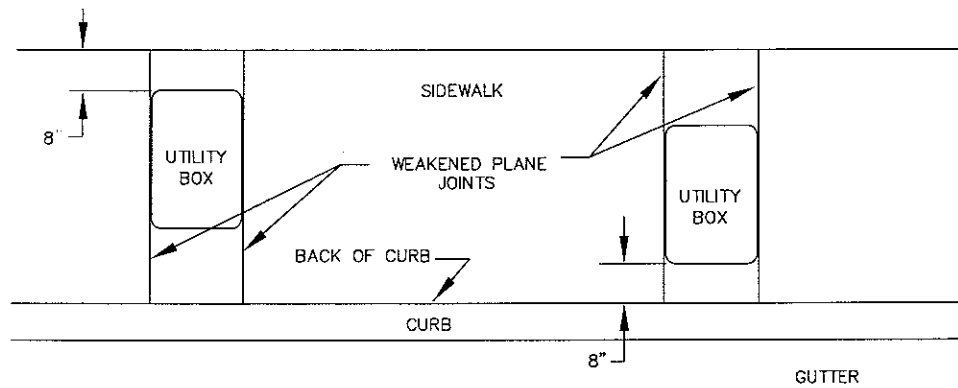


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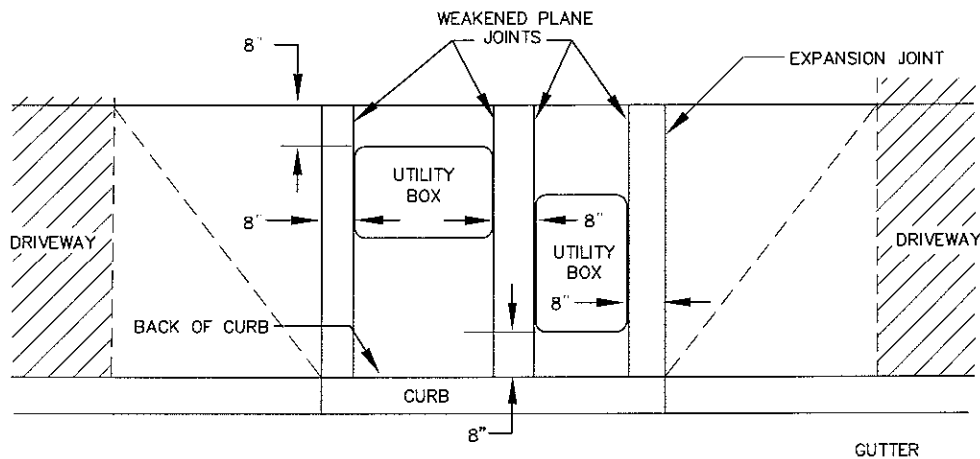
SCALE: NOT TO SCALE

FIGURE IV-D

DATE: 20 DEC 2005
REV:



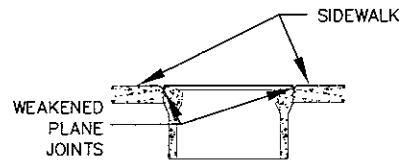
UTILITY BOXES IN SIDEWALK



UTILITY BOXES BETWEEN DRIVEWAYS

NOTE:

PROVIDE A MINIMUM OF 8" AROUND ALL BOXES.
ANY BOX SHALL NOT BE PLACED WITHIN 3'-3" OF
FIRE HYDRANTS IN DRIVEWAYS OR DRIVEWAY APRONS.
THIS DRAWING IS NOT INTENDED TO LIMIT THE NUMBER
OF BOXES BETWEEN DRIVEWAYS TO TWO



TYPICAL SECTION

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
505	REINFORCING STEEL	UTILITY PULL BOX LOCATIONS SIDEWALK AND BETWEEN DRIVEWAYS	
623	TRAFFIC SIGNALS & STREETLIGHTING		
		DATE 12-12-96	DWG. NO. 328 PAGE NO. 88

RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH

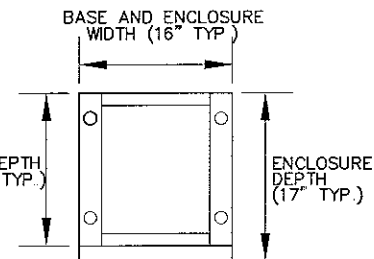
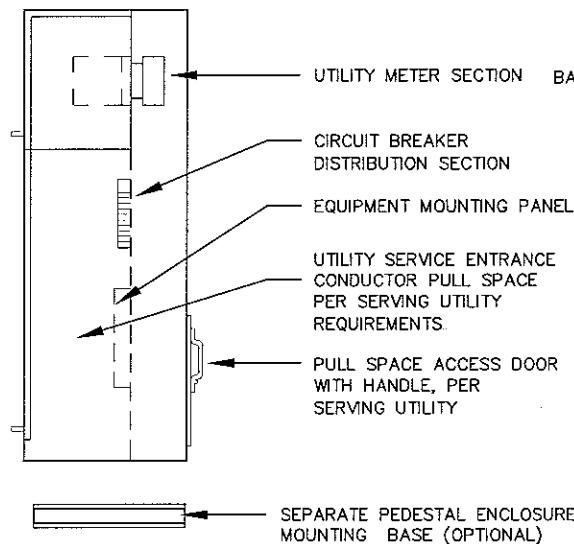
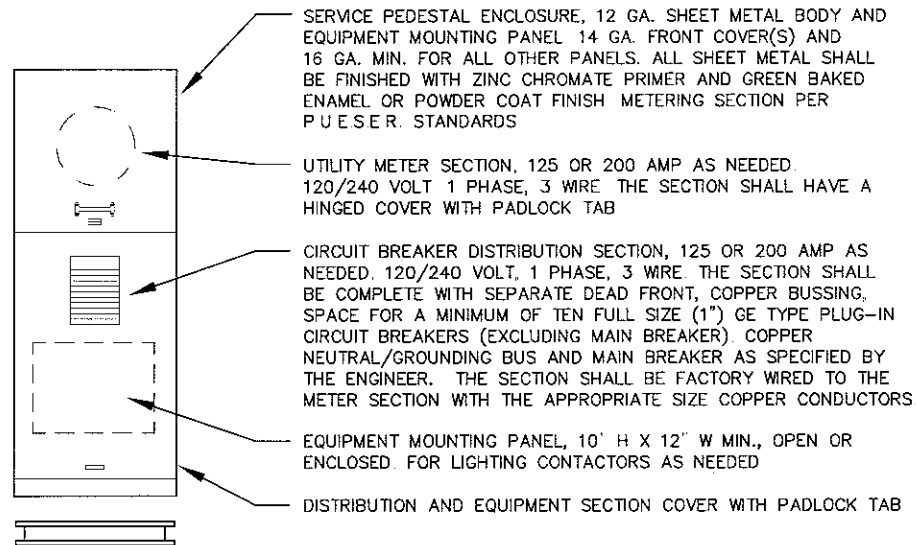


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SCALE: NOT TO SCALE

FIGURE IV-E

DATE: 20 DEC 2005
REV:



TYPICAL MOUNTING
BASE DETAIL
(DIMENSIONS MAY VARY DEPENDING
ON MANUFACTURER)

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
506	STEEL STRUCTURES	SINGLE METER SERVICE PEDESTAL		
623	TRAFFIC SIGNALS & STREETLIGHTING			
		DATE 8-12-99	DWG. NO. 330	PAGE NO. 90

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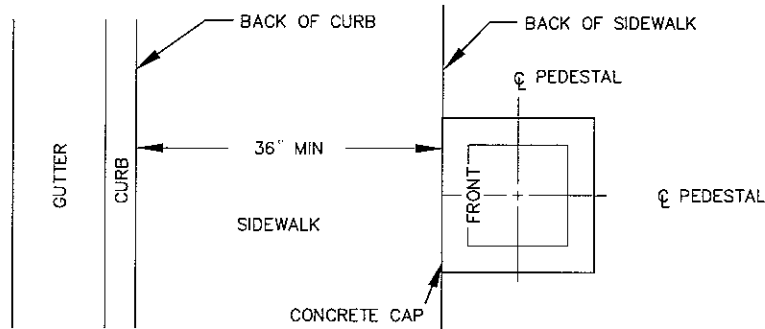


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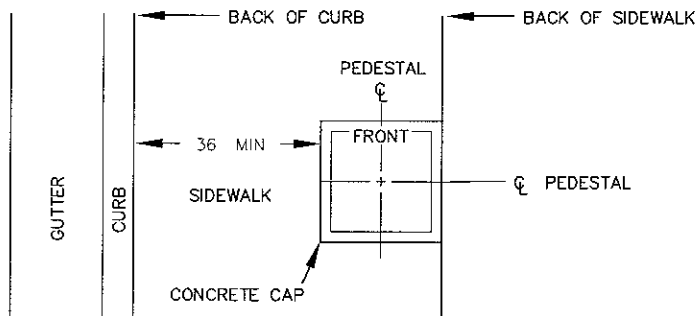
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FIGURE IV-F

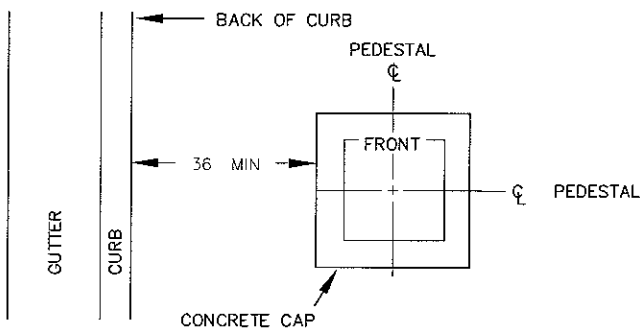
DATE: 20 DEC 2005
REV:



BEHIND SIDEWALK (FOR WIDTHS LESS THAN 5 FT.)



BACK PORTION OF SIDEWALK (FOR WIDTHS OF 5 FT. OR GREATER)



OPEN AREA

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
501	PORTLAND CEMENT CONCRETE	SERVICE PEDESTAL SETBACK	
623	TRAFFIC SIGNALS & STREETLIGHTING		
		DATE 12-12-96	DWG. NO. 331 PAGE NO. 91

RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH

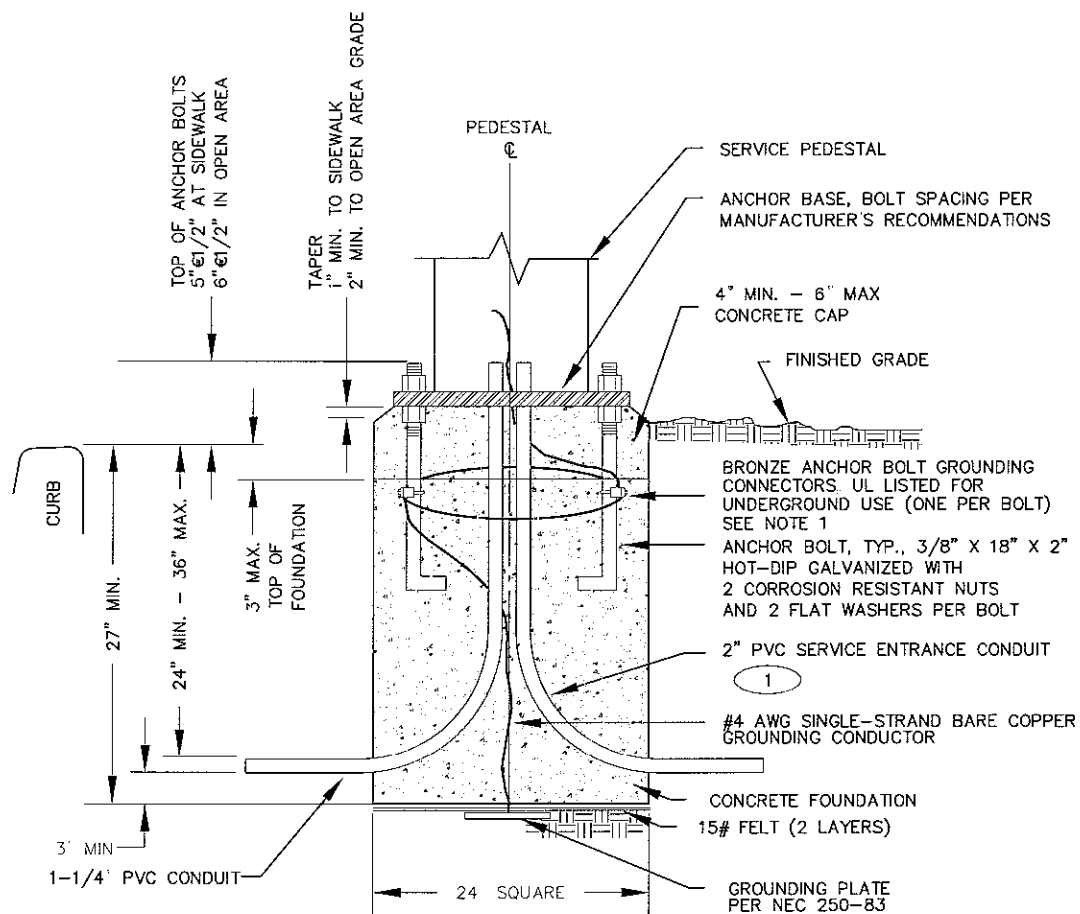


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SCALE: NOT TO SCALE

FIGURE IV-G

DATE: 20 DEC 2005
REV:



- 1 125 AMP SERVICE: 2" CONDUIT, 2 #1 THW AND 1 #6 WHITE THW
200 AMP SERVICE: 2" CONDUIT 2 #3/0 THW AND 1 #2 WHITE THW

NOTES:

- 1 BARE COPPER GROUNDING CONDUCTOR SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE
- 2 CABINET COVERS SHALL BE PARALLEL WITH CURB
- 3 IN AREAS WHERE R/W PERMITS, THE CONCRETE BASE SHALL BE PLACED AT THE BACK EDGE OF THE SIDEWALK.
- 4 CABINET COVERS SHALL OPEN TOWARDS THE STREET WHEN CABINETS ARE LOCATED AT BACK OF WALK. CABINET COVERS SHALL OPEN PARALLEL TO THE SIDEWALK FACING THE DIRECTION OF TRAFFIC WHEN LOCATED WITHIN THE SIDEWALK.
- 5 WIRE SIZES ARE BASED ON UNDERGROUND FEED
- 6 WIRE SIZES SHALL BE INCREASED FOR VOLTAGE DROP LIMITATION WHEN RUN IS LONG

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
501	PORTLAND CEMENT CONCRETE	SERVICE PEDESTAL FOUNDATION (EXCEPT CLARK COUNTY AND CITY OF LAS VEGAS)	
623	TRAFFIC SIGNALS & STREETLIGHTING		
		DATE 2-10-00	DWG. NO. 332 PAGE NO. 92

RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH

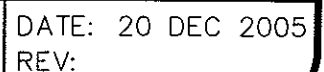


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SCALE: NOT TO SCALE

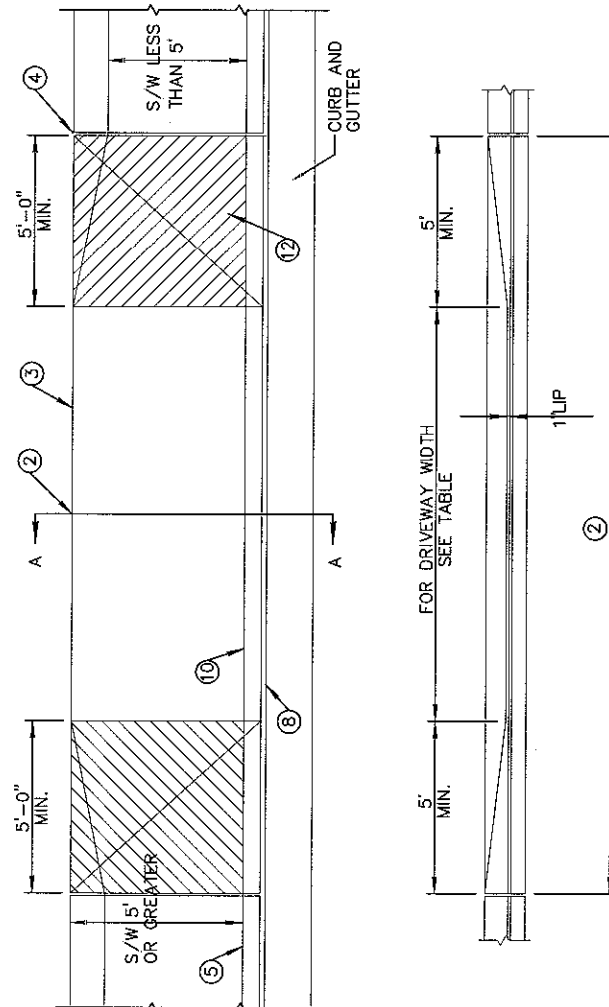
FIGURE IV-H

DATE: 20 DEC 2005
REV:

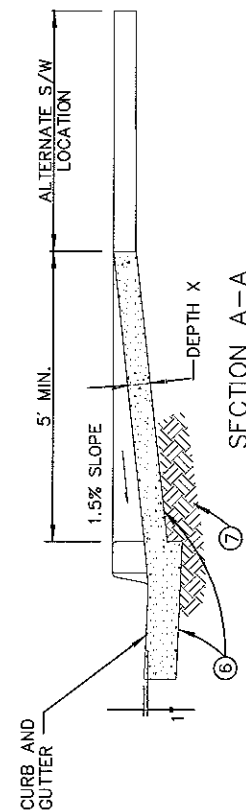


NOTES:

1. DEPRESSED CURB SHALL BE PAID FOR AT THE UNIT PRICE BID FOR THE TYPE OF CURB USED AT THAT LOCATION.
2. WHEN WIDTH EXCEEDS 22' PROVIDE A CONTRACTION JOINT ON D/W CENTERLINE.
3. BACK OF D/W OR FACE OF FUTURE S/W.
4. MASTIC EXPANSION JOINT THROUGH CURB AND GUTTER. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER A.S.T.M. D-1751.
5. BACK OF CURB - CONSTRUCTION JOINT OR SCORE MARK.
6. CLASS 'B' CONCRETE, SECT. 725.
7. SUBGRADE PREPARATION, SECT. 301.
8. FLOW LINE OF GUTTER.
9. DEPRESSED CURB.
10. SECT. A-A AND ELEVATION, D/W VERTICAL CURB AND GUTTER OR ROLL TYPE CURB AND GUTTER.
11. ROLL TYPE CURB AND GUTTER NOT PERMITTED IN THE CITY OF MESA.
12. 1/4" GROOVES AT 1" O.C. FULL WIDTH OF 5' WARP SECTION, EACH SIDE OF DRIVEWAY. SEE DETAIL NO. 1 ON TYPE 'D' RAMP DETAIL NO. 234.



COMMERCIAL AND INDUSTRIAL			
DRIVEWAY WIDTH	MIN.	MAX.	CLASS DEPTH x
COMMERCIAL	* 16'	40'	B 6"
INDUSTRIAL	* 16'	40'	B 6"
* 24' MIN. FOR TWO WAY TRAFFIC			
RESIDENTIAL			
DRIVEWAY WIDTH	MIN.	MAX.	CLASS DEPTH x
MAJOR STREET	16'	30'	B 5"
COLLECTOR STREET	* 12'	30'	B 5"
LOCAL STREET	* 12'	30'	B 5"
* 16' DESIRABLE			

DETAIL NO.
250MARICOPA
ASSOCIATION of
GOVERNMENTS
STANDARD DETAIL
ENGLISH

DRIVEWAY ENTRANCES

REVISED

DETAIL NO.
250

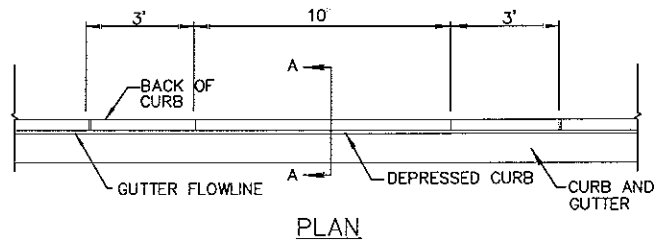
RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH


Stanley Consultants INC

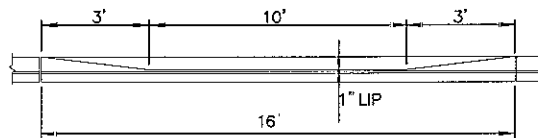
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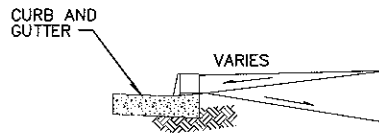
FIGURE V-A-2
 DATE: 20 DEC 2005
 REV:



PLAN



PROFILE



SECTION A-A

CURB CUT FOR DRAINAGE

NTS

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GOLDEN VALLEY RANCH

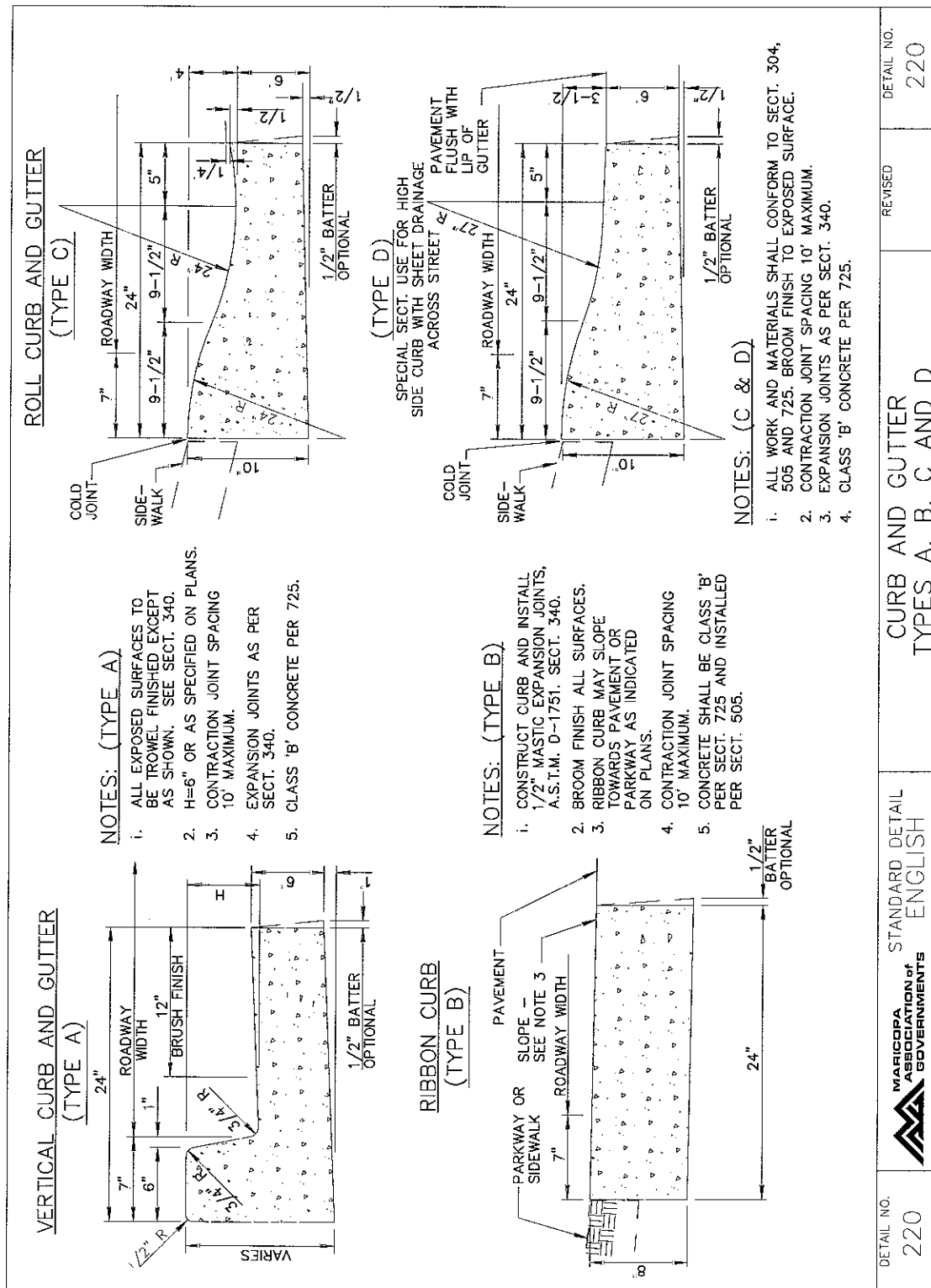


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FIGURE V-B

DATE: 20 DEC 2005
REV:



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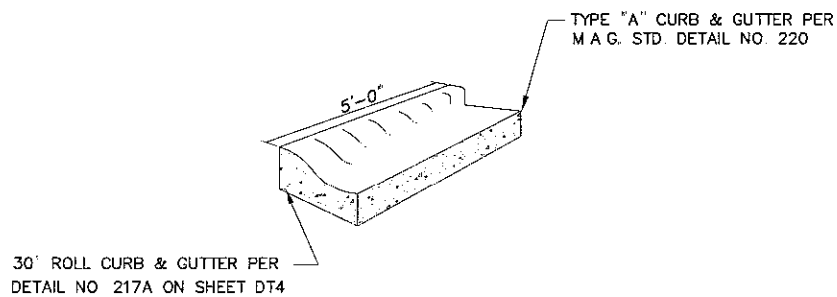
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FIGURE V-D-1

DATE: 20 DEC 2005
REV:

DATE: 20 DEC 2005
REV:



**TRANSITION FROM TYPE "A" CURB
TO ROLL CURB AND GUTTER**
NTS

**RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH**



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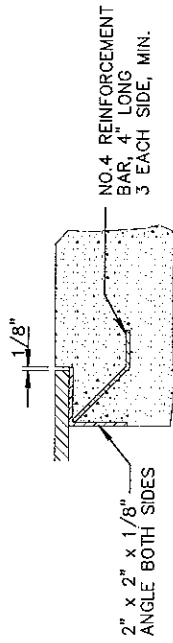
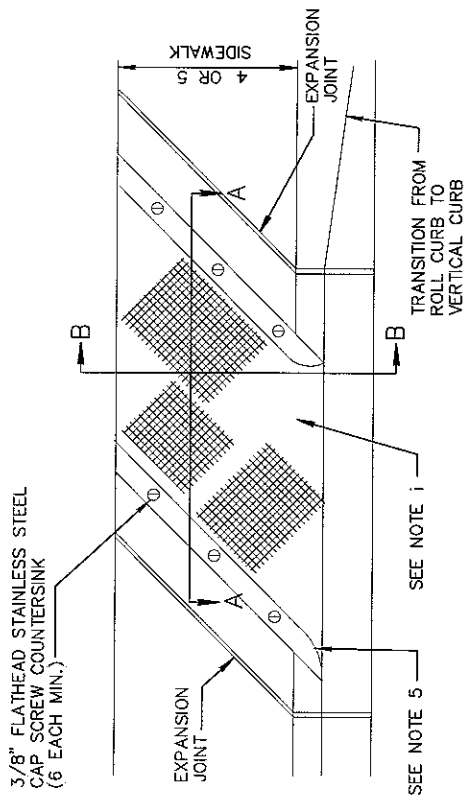
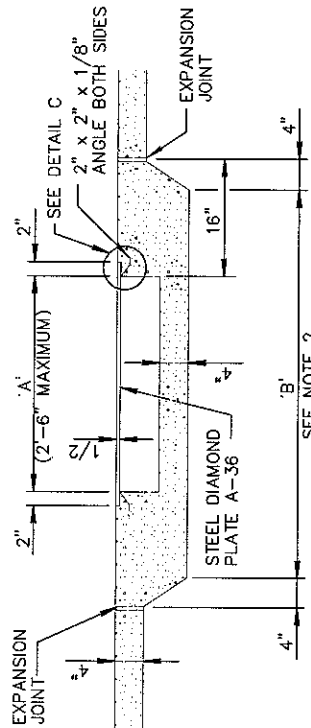
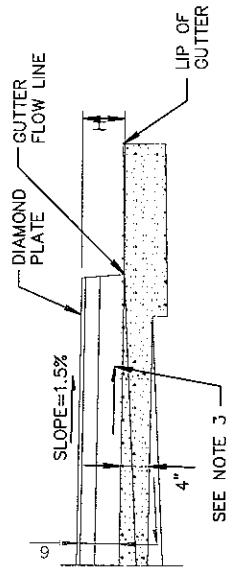
SCALE: NOT TO SCALE

FIGURE V-D-3

DATE: 20 DEC 2005
REV:

NOTES:

1. ANGLE EQUALS 45° UNLESS SPECIFIED ON PLAN.
2. DIMENSION 'B' EQUALS 'A' + 2'
3. (———) INDICATES DIRECTION OF FLOW.
4. PAINT STEEL ACCORDING TO SECTION 790.
5. PAINT NUMBER i-A OR i-B.
6. R EQUALS 1" UNLESS OTHERWISE DIRECTED.
7. H EQUALS CURB FACE HEIGHT.
8. FOR ROLL CURB AND GUTTER, USE 2' TRANSITIONS TO VERTICAL CURB.
9. CONCRETE SHALL BE CLASS B PER SECT. 725 AND INSTALLED PER SECT. 505.

**DETAIL C****SECTION 'A--A'****SECTION 'B--B'**

DETAIL NO.

203

STANDARD DETAIL
ENGLISH

SCUPPERS

REVISED

DETAIL NO.

203

RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH

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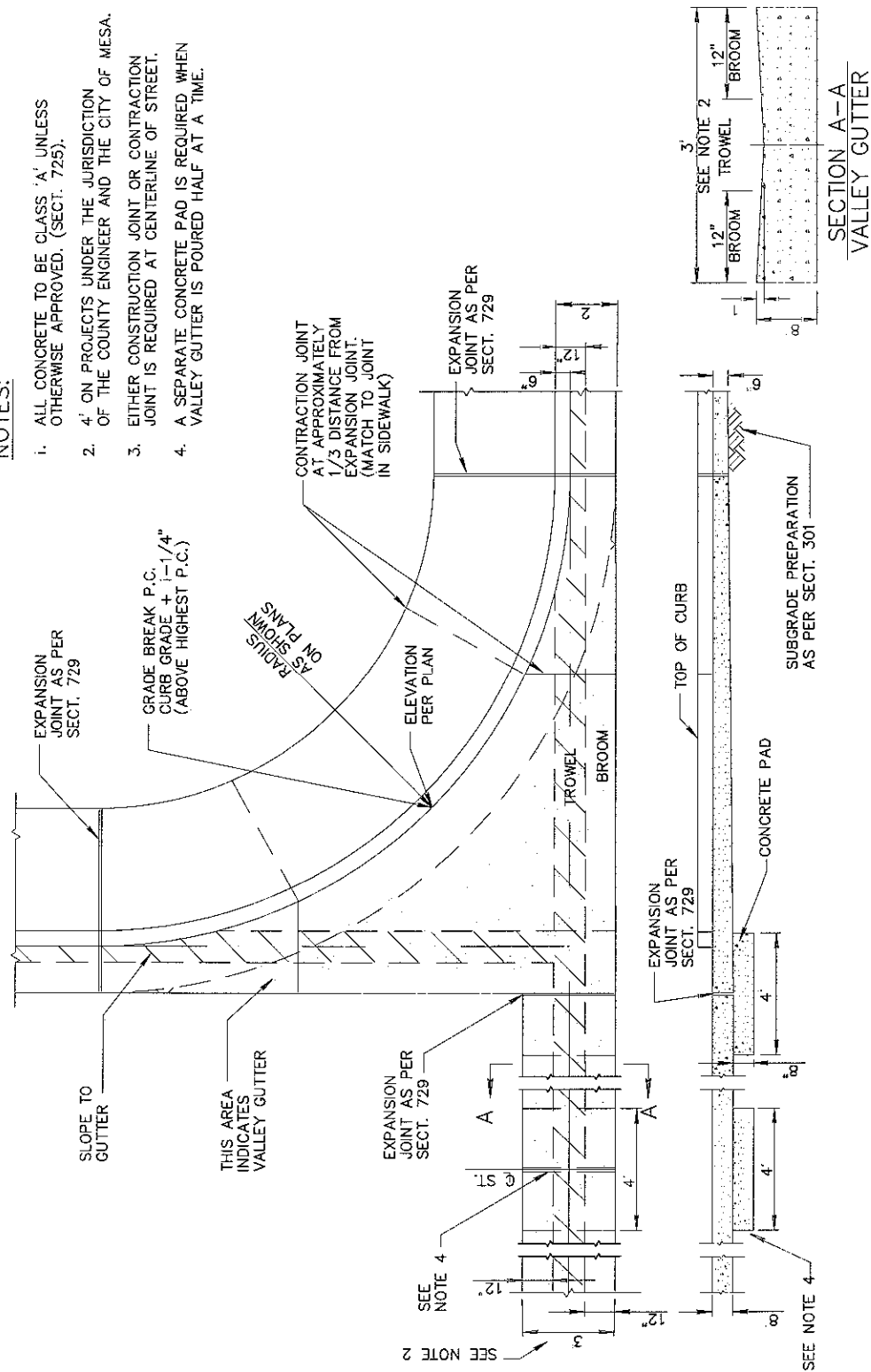
SCALE: NOT TO SCALE

FIGURE V-D-4

DATE: 20 DEC 2005
REV:

NOTES:

1. ALL CONCRETE TO BE CLASS 'A' UNLESS OTHERWISE APPROVED. (SECT. 725).
2. 4' ON PROJECTS UNDER THE JURISDICTION OF THE COUNTY ENGINEER AND THE CITY OF MESA.
3. EITHER CONSTRUCTION JOINT OR CONTRACTION JOINT IS REQUIRED AT CENTERLINE OF STREET.
4. A SEPARATE CONCRETE PAD IS REQUIRED WHEN VALLEY GUTTER IS POURED HALF AT A TIME.



STANDARD DETAIL
ENGLISH

DETAIL NO.
240

REVISED

DETAIL NO.
240

VALLEY GUTTER

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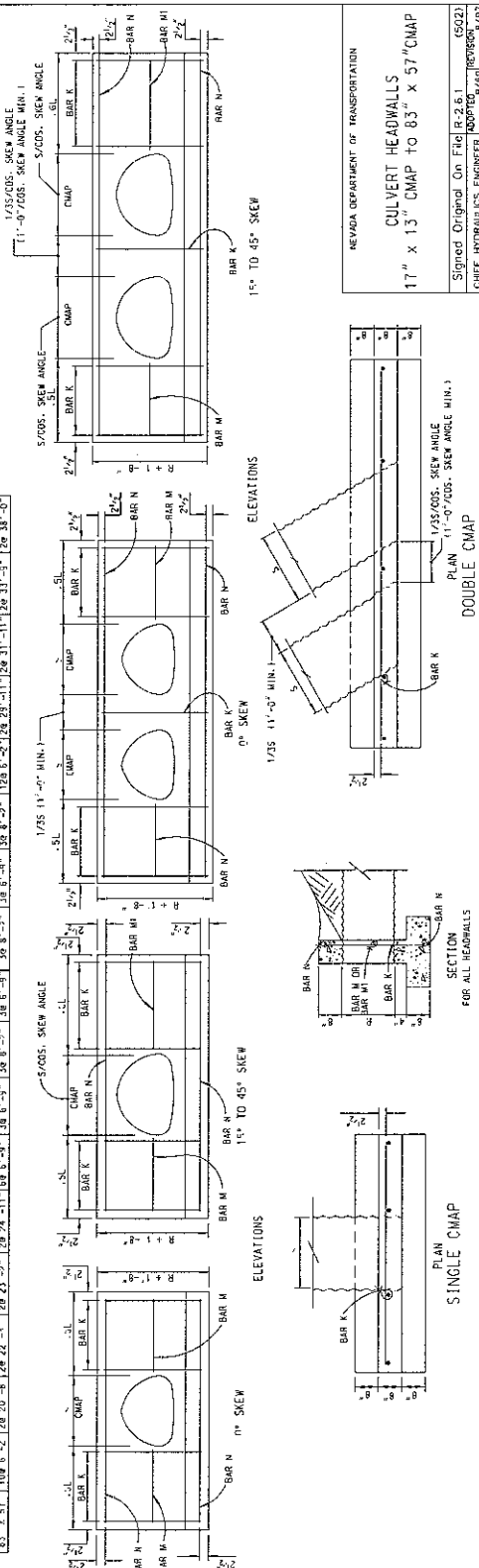
SCALE: NOT TO SCALE

FIGURE VI

DATE: 20 DEC 2005
REV:

1. CONCRETE SHALL BE CLASS A OR 40.
2. REINFORCING STEEL SHALL BE DEFORMED BARS WITH MAXIMUM TENSILE STRENGTH OF 60,000 PSI.
3. REINFORCING STEEL SHALL BE PROTECTED BY A MINIMUM OF 1" CLEAR OF EXPOSED SURFACE.
4. BARS SHALL BE KEPT 1 1/2" CLEAR OF SURFACE OF CONCRETE. REINFORCING BARS MAY BE CUT SHORT AT JOINTS.
5. IF FOOTINGS SHOWN ARE OF MINIMUM DEPTH AND SHALL BE EXTENDED TO 12" BELOW FINISH GRADE.
6. IF SOIL IS UNSUITABLE FOR LAYING TO SCOUR.
7. ALL REINFORCING SHALL BE WELDED TOGETHER AT JOINTS. WHEN NEUTRALS ARE CONSTRUCTED, WHEN NEUTRALS ARE NOT CONSTRUCTED THE PIPES SHALL NOT BE WELDED EXCEPT IN THE FOLLOWING CASES:
 - a. FOR ESTIMATION OF MINIMUM QUANTITIES ON SLOPED COLVERTS:
 - 1. 0' TO 10' - MIN. QUANTITIES FOR 0' OF SLOPE.
 - 2. 10' TO 25' - MIN. QUANTITIES FOR 15' SLOPE.
 - 3. 25' TO 40' - MIN. QUANTITIES FOR 30' SLOPE.
 - 4. 40' TO 55' - MIN. QUANTITIES FOR 45' SLOPE.
 - 5. 55' TO 70' - MIN. QUANTITIES FOR 60' SLOPE.
 - b. OVER 70' - MIN. CALCULATE QUANTITIES REQUIRED.
8. ALL PIPES SHOULD BE INSTALLED ON 5" INCREMENTS WHERE IT IS FEASIBLE.

CHAP. AREA DIA.	CHAP. SIZE S X R	CHAP. AREA SQ. FT.	S I N G L E C M A P						D O U B L E C M A P								
			0° SKEW CONC. STEEL CU. YD.	15° SKEW CONC. STEEL CU. YD.	30° SKEW CONC. STEEL CU. YD.	45° SKEW CONC. STEEL CU. YD.	60° SKEW CONC. STEEL CU. YD.	75° SKEW CONC. STEEL CU. YD.	0° SKEW CONC. STEEL CU. YD.	15° SKEW CONC. STEEL CU. YD.	30° SKEW CONC. STEEL CU. YD.	45° SKEW CONC. STEEL CU. YD.					
17 X 13	15	1.1	3.3	0.81	35	0.24	37	0.97	38	1.03	39	1.30	46	1.38	51	1.64	57
18 X 14	16	1.2	3.6	0.90	38	0.26	39	1.00	40	1.06	41	1.34	48	1.42	54	1.70	60
19 X 15	17	1.3	3.9	0.99	39	0.28	40	1.03	41	1.09	42	1.38	50	1.46	56	1.74	63
20 X 16	18	1.4	4.2	1.08	40	0.30	41	1.06	42	1.12	43	1.41	51	1.50	59	1.79	66
21 X 17	19	1.5	4.5	1.17	41	0.32	42	1.09	43	1.15	44	1.44	52	1.53	61	1.82	69
22 X 18	20	1.6	4.8	1.26	42	0.34	43	1.12	44	1.18	45	1.47	53	1.56	63	1.85	71
23 X 19	21	1.7	5.1	1.35	43	0.36	44	1.15	45	1.21	46	1.50	54	1.59	65	1.88	74
24 X 20	22	1.8	5.4	1.44	44	0.38	45	1.18	46	1.24	47	1.53	55	1.62	67	1.91	77
25 X 21	23	1.9	5.7	1.53	45	0.40	46	1.21	47	1.27	48	1.56	56	1.65	69	1.94	80
26 X 22	24	2.0	6.0	1.62	46	0.42	47	1.24	48	1.30	49	1.59	57	1.68	71	1.97	83
27 X 23	25	2.1	6.3	1.71	47	0.44	48	1.27	49	1.33	50	1.62	58	1.71	73	2.00	86
28 X 24	26	2.2	6.6	1.80	48	0.46	49	1.30	50	1.36	51	1.65	59	1.74	75	2.03	89
29 X 25	27	2.3	6.9	1.89	49	0.48	50	1.33	51	1.39	52	1.68	60	1.77	77	2.06	92
30 X 26	28	2.4	7.2	1.98	50	0.50	51	1.36	52	1.42	53	1.71	61	1.80	79	2.09	95
31 X 27	29	2.5	7.5	2.07	51	0.52	52	1.39	53	1.45	54	1.74	62	1.83	81	2.12	98
32 X 28	30	2.6	7.8	2.16	52	0.54	53	1.42	54	1.48	55	1.77	63	1.86	83	2.15	101
33 X 29	31	2.7	8.1	2.25	53	0.56	54	1.45	55	1.51	56	1.80	64	1.89	85	2.18	104
34 X 30	32	2.8	8.4	2.34	54	0.58	55	1.48	56	1.54	57	1.83	65	1.92	87	2.21	107
35 X 31	33	2.9	8.7	2.43	55	0.60	56	1.51	57	1.57	58	1.86	66	1.95	89	2.24	110
36 X 32	34	3.0	9.0	2.52	56	0.62	57	1.54	58	1.60	59	1.89	67	1.98	91	2.27	113
37 X 33	35	3.1	9.3	2.61	57	0.64	58	1.57	59	1.63	60	1.92	68	2.01	93	2.30	116
38 X 34	36	3.2	9.6	2.70	58	0.66	59	1.60	60	1.66	61	1.95	69	2.04	95	2.33	119
39 X 35	37	3.3	9.9	2.79	59	0.68	60	1.63	61	1.69	62	1.98	70	2.07	97	2.36	122
40 X 36	38	3.4	10.2	2.88	60	0.70	61	1.66	62	1.72	63	2.01	71	2.10	99	2.39	125
41 X 37	39	3.5	10.5	2.97	61	0.72	62	1.69	63	1.75	64	2.04	72	2.13	101	2.42	128
42 X 38	40	3.6	10.8	3.06	62	0.74	63	1.72	64	1.78	65	2.07	73	2.16	103	2.45	131
43 X 39	41	3.7	11.1	3.15	63	0.76	64	1.75	65	1.81	66	2.10	74	2.19	105	2.48	134
44 X 40	42	3.8	11.4	3.24	64	0.78	65	1.78	66	1.84	67	2.13	75	2.22	107	2.51	137
45 X 41	43	3.9	11.7	3.33	65	0.80	66	1.81	67	1.87	68	2.16	76	2.25	109	2.54	140
46 X 42	44	4.0	12.0	3.42	66	0.82	67	1.84	68	1.90	69	2.19	77	2.28	111	2.57	143
47 X 43	45	4.1	12.3	3.51	67	0.84	68	1.87	69	1.93	70	2.22	78	2.31	113	2.60	146
48 X 44	46	4.2	12.6	3.60	68	0.86	69	1.90	70	1.96	71	2.25	79	2.34	115	2.63	149
49 X 45	47	4.3	12.9	3.69	69	0.88	70	1.93	71	1.99	72	2.28	80	2.37	117	2.66	152
50 X 46	48	4.4	13.2	3.78	70	0.90	71	1.96	72	2.02	73	2.31	81	2.40	119	2.69	155
51 X 47	49	4.5	13.5	3.87	71	0.92	72	1.99	73	2.05	74	2.34	82	2.43	121	2.72	158
52 X 48	50	4.6	13.8	3.96	72	0.94	73	2.02	74	2.08	75	2.37	83	2.46	123	2.75	161
53 X 49	51	4.7	14.1	4.05	73	0.96	74	2.05	75	2.11	76	2.40	84	2.49	125	2.78	164
54 X 50	52	4.8	14.4	4.14	74	0.98	75	2.08	76	2.14	77	2.43	85	2.52	127	2.81	167
55 X 51	53	4.9	14.7	4.23	75	1.00	76	2.11	77	2.17	78	2.46	86	2.55	129	2.84	170
56 X 52	54	5.0	15.0	4.32	76	1.02	77	2.14	78	2.20	79	2.49	87	2.58	131	2.87	173
57 X 53	55	5.1	15.3	4.41	77	1.04	78	2.17	79	2.23	80	2.52	88	2.61	133	2.90	176
58 X 54	56	5.2	15.6	4.50	78	1.06	79	2.20	80	2.26	81	2.55	89	2.64	135	2.93	179
59 X 55	57	5.3	15.9	4.59	79	1.08	80	2.23	81	2.29	82	2.58	90	2.67	137	2.96	182
60 X 56	58	5.4	16.2	4.68	80	1.10	81	2.26	82	2.32	83	2.61	91	2.70	139	2.99	185
61 X 57	59	5.5	16.5	4.77	81	1.12	82	2.29	83	2.35	84	2.64	92	2.73	141	3.02	188
62 X 58	60	5.6	16.8	4.86	82	1.14	83	2.32	84	2.38	85	2.67	93	2.76	143	3.05	191
63 X 59	61	5.7	17.1	4.95	83	1.16	84	2.35	85	2.41	86	2.70	94	2.79	145	3.08	194
64 X 60	62	5.8	17.4	5.04	84	1.18	85	2.38	86	2.44	87	2.73	95	2.82	147	3.11	197
65 X 61	63	5.9	17.7	5.13	85	1.20	86	2.41	87	2.47	88	2.76	96	2.85	149	3.14	200
66 X 62	64	6.0	18.0	5.22	86	1.22	87	2.44	88	2.50	89	2.79	97	2.88	151	3.17	203
67 X 63	65	6.1	18.3	5.31	87	1.24	88	2.47	89	2.53	90	2.82	98	2.91	153	3.20	206
68 X 64	66	6.2	18.6	5.40	88	1.26	89	2.50	90	2.56	91	2.85	99	2.94	155	3.23	209
69 X 65	67	6.3	18.9	5.49	89	1.28	90	2.53	91	2.59	92	2.88	100	2.97	157	3.26	212
70 X 66	68	6.4	19.2	5.58	90	1.30	91	2.56	92	2.62	93	2.91	101	3.00	159	3.29	215
71 X 67	69	6.5	19.5	5.67	91	1.32	92	2.59	93	2.65	94	2.94	102	3.03	161	3.32	218
72 X 68	70	6.6	19.8	5.76	92	1.34	93	2.62	94	2.68	95	2.97	103	3.06	163	3.35	221
73 X 69	71	6.7	20.1	5.85	93	1.36	94	2.65	95	2.71	96	3.00	104	3.09	165	3.38	224
74 X 70	72	6.8	20.4	5.94	94	1.38	95	2.68	96	2.74	97	3.03	105	3.12	167	3.41	227
75 X 71	73	6.9	20.7	6.03	95	1.40	96	2.71	97	2.77	98	3.06	106	3.15	169	3.44	230
76 X 72	74	7.0	21.0	6.12	96	1.42	97	2.74	98	2.80	99	3.09	107	3.18	171	3.47	233
77 X 73	75	7.1	21.3	6.21	97	1.44	98	2.77	99	2.83	100	3.12	108	3.21	173	3.50	236
78 X 74	76	7.2	21.6	6.30	98	1.46	99	2.80	100	2.86	101	3.15	109	3.24	175	3.53	239
79 X 75	77	7.3	21.9	6.39	99	1.48	100	2.83	101	2.89	102	3.18	110	3.27	177	3.56	242
80 X 76	78	7.4	22.2	6.48	100	1.50	101	2.86	102	2.92	103	3.21	111	3.30	179	3.59	245
81 X 77	79	7.5	22.5	6.57	101	1.52	102	2.89	103	2.95	104	3.24	112	3.33	181	3.62	248
82 X 78	80	7.6	22.8	6.66	102	1.54	103	2.92	104	2.98	105	3.27	113	3.36	183	3.65	251
83 X 79	81	7.7	23.1	6.75	103	1.56	104	2.95	105	3.01	106	3.30	114	3.39	185	3.68	254
84 X 80	82	7.8	23.4	6.84	104	1.58	105	2.98	106	3.04	107	3.33	115	3.42	187	3.71	257
85 X 81	83	7.9	23.7	6.93	105	1.60	106	3.01	107	3.07	108	3.36	116	3.45	189	3.74	260
86 X 82	84	8.0	24.0	7.02	106	1.62	107	3.04	108	3.10	109	3.39	117	3.48	191	3.77	263
87 X 83	85	8.1	24.3	7.11	107	1.64	108	3.07	109	3.13	110	3.42	118	3.51	193	3.80	266
88 X 84	86	8.2	24.6	7.20	108	1.66	109	3.10	110	3.16	111	3.45	119	3.54	195	3.83	269
89 X 85	87	8.3	24.9	7.29	109	1.68	110	3.13	111	3.19	112	3.48	120	3.57	197	3.86	272
90 X 86	88	8.4	25.2	7.38	110	1.70	111	3.16	112	3.22	113	3.51	121	3.60	199	3.89	275
91 X 87	89	8.5	25.5	7.47	111	1.72	112	3.19	113	3.25	114	3.54	122	3.63	201	3.92	278
92 X 88	90	8.6	25.8	7.56	112	1.74	113	3.22	114	3.28	115	3.57	123	3.66	203	3.95	281
93 X 89	91	8.7	26.1	7.65	113	1.76	114	3.25	115	3.31	116	3.60	124	3.69	205	3.98	284
94 X 90	92	8.8	26.4	7.74	114	1.78	115	3.28	116	3.34	117	3.63	125	3.72	207	4.01	287
95 X 91	93	8.9	26.7	7.83	115	1.80	116	3.31	117</								

[illegible]

**RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH**

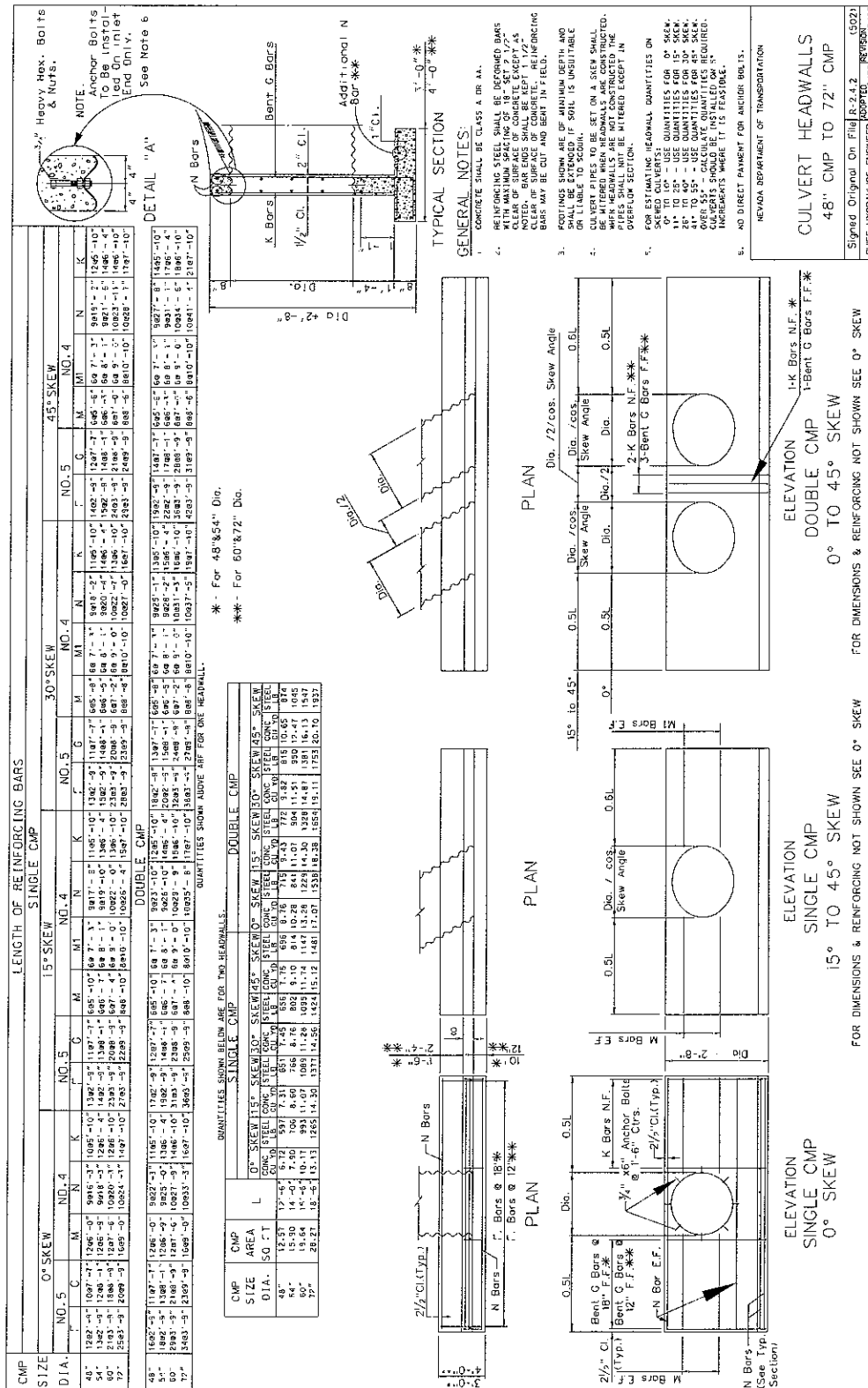


Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE VII-B

DATE: 20 DEC 2005
REV:



SPAN	HEIGHT	CUBIC YARDS OF CONCRETE AND POUNDS OF REINFORCING FOR TWO TYPE I HEADWALLS ①												DOUBLE BOX						TRIPLE BOX					
		SINGLE BOX						DOUBLE BOX						TRIPLE BOX											
		0° SKEW CONC. REINF.	15° SKEW CONC. REINF.	30° SKEW CONC. REINF.	45° SKEW CONC. REINF.	0° SKEW CONC. REINF.	15° SKEW CONC. REINF.	30° SKEW CONC. REINF.	45° SKEW CONC. REINF.	0° SKEW CONC. REINF.	15° SKEW CONC. REINF.	30° SKEW CONC. REINF.	45° SKEW CONC. REINF.	0° SKEW CONC. REINF.	15° SKEW CONC. REINF.	30° SKEW CONC. REINF.	45° SKEW CONC. REINF.								
1	1	5.6	393	6.4	476	7.2	563	8.9	739	7.7	508	8.5	597	9.5	700	11.8	910	11.8	842	12.3	896	14.4	1045	17.6	1280
1	1	7.6	609	8.0	644	9.6	774	11.6	946	9.7	726	10.1	767	12.0	912	14.6	1119	11.8	842	12.3	896	14.4	1045	17.6	1280
1	1	9.6	705	10.2	782	11.8	942	15.0	1238	11.7	825	12.4	908	14.3	1085	15.0	1414	13.9	944	14.6	1030	16.8	1220	21.0	1578
1	1	5.0	418	5.8	504	7.6	595	4.4	779	8.3	600	9.2	639	10.3	817	12.7	1062	12.6	1004	13.2	1058	15.4	1243	18.8	1525
1	1	7.9	637	8.3	673	10.0	807	12.1	985	10.3	821	10.8	869	12.7	1032	15.5	1270	14.7	1103	15.5	1198	17.7	1411	22.1	1823
6	6	9.9	730	10.6	809	12.2	974	15.4	1278	12.3	917	13.0	1009	15.0	1203	18.8	1566	14.7	1103	15.5	1198	17.7	1411	22.1	1823
7	7	15.3	1480	16.0	1601	19.8	2154	26.5	3104	14.8	1173	15.0	1310	18.3	1740	23.7	2449	17.2	1361	17.5	1502	21.0	1951	27.1	2708
1	1	6.3	442	7.1	532	8.0	626	9.3	820																
1	1	8.3	665	8.7	702	10.4	839	12.6	1025																
7	7	10.3	756	10.9	837	12.6	1006	15.3	1319																
1	1	12.8	1011	12.9	1137	15.9	1544	20.8	2209																
7	7	15.6	1432	16.3	1637	20.2	2199	27.0	3161																
1	1	8.6	693	9.1	731	10.8	872	13.1	1065	11.8	1045	12.3	1078	14.3	1238	17.3	1475	14.9	1320	15.5	1365	17.8	1568	21.4	1858
1	1	10.6	782	11.7	864	13.0	1038	16.4	1360	13.8	1137	14.5	1216	16.6	1405	20.6	1773	17.0	1414	17.6	1501	20.2	1720	25.0	2159
1	1	13.1	1039	13.3	1169	16.3	1583	21.3	2261	16.4	1401	16.6	1525	19.9	1958	25.6	2676	19.6	1677	19.9	1814	23.6	2276	29.9	3065
1	1	16.0	1464	16.7	1673	20.6	2242	27.5	3219	19.2	1824	21.0	2133	24.3	2620	31.8	3637	22.5	2107	24.4	2428	28.0	2946	36.1	4029
1	1	17.9	1904	20.2	2254	24.7	2778	33.1	3938	21.2	2267	23.6	2552	27.9	3051	39.5	4359	24.5	2552	27.0	2850	31.1	3381	43.9	4753
1	1	7.2	515	8.2	612	9.2	721	11.4	942	11.2	1111	12.2	1227	13.6	1383	16.8	1734								
1	1	3.3	749	9.8	789	11.6	936	14.1	1144	13.2	1348	13.8	1396	16.1	1608	19.6	1939								
1	1	11.3	833	12.0	920	13.8	1101	17.4	1441	15.2	1434	16.1	1531	18.4	1770	23.0	2239	19.2	1876	20.1	1985	22.9	2274	28.5	2857
1	1	13.8	1093	14.0	1233	17.1	1661	22.3	2365	17.8	1697	18.1	1775	21.7	2187	26.9	3165	21.8	2141	22.2	2219	26.3	2666	33.6	3786
1	1	16.6	1528	17.4	1745	21.4	2329	29.4	3334	20.7	2135	21.6	2359	26.1	3006	34.1	4137	24.7	2582	25.8	2821	30.7	3519	39.8	4761
1	1	18.6	1917	20.9	2314	25.0	2870	34.1	4054	22.7	2597	25.2	2935	29.7	3544	39.9	4860	26.8	3037	29.4	3399	34.4	4057	45.6	5486
1	1	23.2	2117	25.1	2482	31.1	3244	41.4	4597																
10	29.5	3352	31.6	3598	38.6	4397	51.7	5882	33.7	3967	36.0	4217	43.5	5017	57.6	6703	37.8	4422	40.3	4688	48.3	5598	63.5	7335	
1	1	10.0	804	10.5	848	12.4	1001	15.1	1224	14.6	1732	15.2	1806	17.6	2090	21.5	2449								
1	1	12.0	884	12.7	975	14.6	1165	18.4	1522	16.8	1815	17.5	1941	20.0	2247	24.9	2849								
1	1	14.5	1148	14.7	1286	17.9	1738	23.3	2469	19.2	2086	19.6	2244	23.3	2817	29.3	3799	23.9	2744	24.4	2922	28.7	3576	36.5	4733
1	1	17.3	1591	18.1	1817	22.2	2416	29.4	3449	22.1	2531	23.0	2775	27.1	3497	36.1	4782	26.8	3195	27.9	3460	33.1	4261	42.8	5719
1	1	19.3	1945	21.8	2404	25.8	2962	35.1	4171	23.1	2884	26.7	3396	31.3	4048	41.8	5506	27.8	3554	31.6	4094	36.8	4830	48.6	6446
1	1	23.9	2181	26.1	2553	31.9	3327	47.4	4704	28.7	3123	31.1	3522	37.5	4414	49.2	6042	33.5	3796	36.1	4218	43.0	5191	56.1	6984
10	30.2	3429	32.3	3680	39.4	4488	52.7	6003	35.0	4373	37.4	4646	45.1	5580	59.6	7344	39.3	5049	42.4	5341	50.7	6353	66.5	8289	
17	42.8	5137	47.2	5372	56.4	6075	80.1	8124	47.8	6087	52.3	6340	62.2	7141	87.2	9470	52.7	6768	57.5	7045	67.3	7930	94.7	10420	

① - QUANTITIES SHOWN ARE FOR HEADWALLS AT THE INLET AND OUTLET

NEVADA DEPARTMENT OF TRANSPORTATION

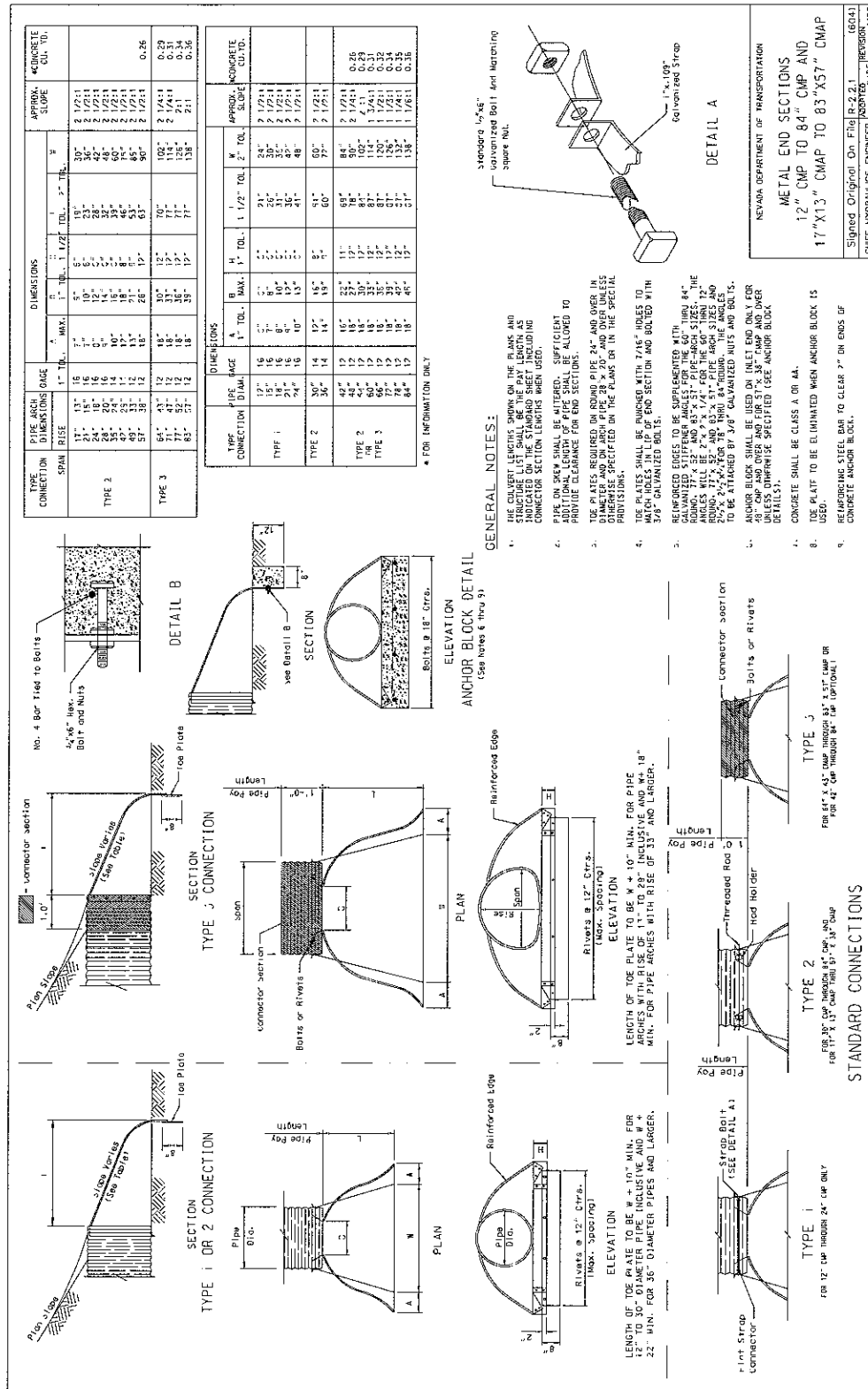
ESTIMATE OF QUANTITIES
TYPE I HEADWALLSSigned Original On File B-20.15 (5022)
CHIEF BROCK ENGINEER 11/70
REVISION 3/87RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE VII-D

DATE: 20 DEC 2005
REV:



RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH



Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE VII-E

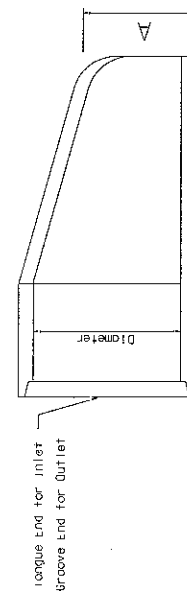
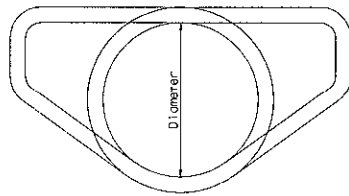
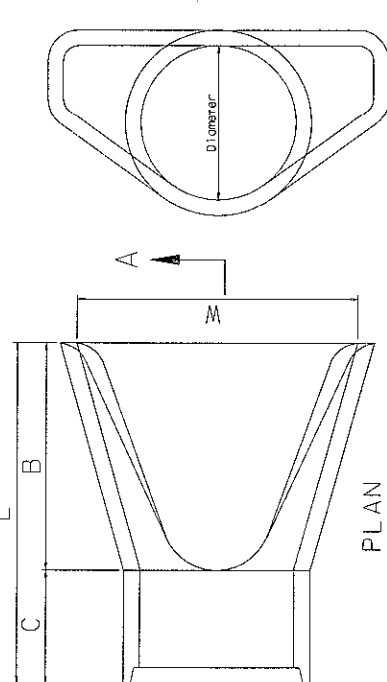
DATE: 20 DEC 2005
REV:

GENERAL NOTES:

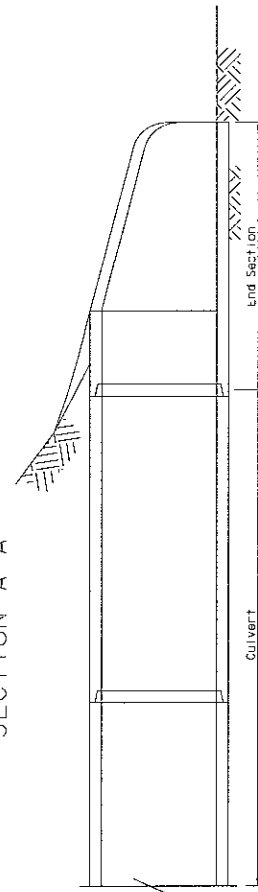
1. CLASS AND TYPE OF CONCRETE SHALL BE AS SPECIFIED FOR REINFORCED CONCRETE PIPE.
2. STRUCTURAL DESIGN OF END SECTION SHALL CONFORM TO THAT OF STANDARD REINFORCED CONCRETE CULVERT PIPE.
3. LENGTH OF PIPE SHOWN ON THE DESIGN PLANS DOES NOT INCLUDE CONNECTOR SECTION (LENGTH C).
4. CONTACT HYDRAULICS ENGINEER FOR SIZES NOT LISTED.

DIAMETER	WEIGHT	A	B	C*	L	W
18"	670	9"	2'-1"	2'-1"	4'-3"	3'-0"
24"	1300	9 1/2"	3'-6"	2'-6"	6'-0"	4'-0"
30"	1850	1'-0"	4'-2"	1'-8"	6'-1"	5'-0"
36"	2500	1'-4"	5'-2"	2'-11"	8'-1"	6'-0"
42"	3100	2'-0"	6'-0"	3'-2"	8'-2"	7'-0"
48"	3700	2'-4"	6'-8"	3'-8"	8'-3"	8'-0"
54"	4300	2'-8"	7'-6"	4'-2"	8'-4"	9'-0"

* For Reference Only



SECTION A-A



NEVADA DEPARTMENT OF TRANSPORTATION

RCP END SECTION
18" RCP TO 54" RCP

Signed Original On File	R-2.3.1	(603)
CHIEF HYDRAULICS ENGINEER	ADOPTED 1/75	REVISION 12/04

RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH


Stanley Consultants INC.

 5820 S. EASTERN AVENUE, SUITE 200
 LAS VEGAS NEVADA 89119
 (702) 369-9396 Fax (702) 369-9793

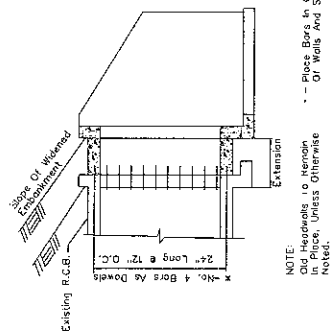
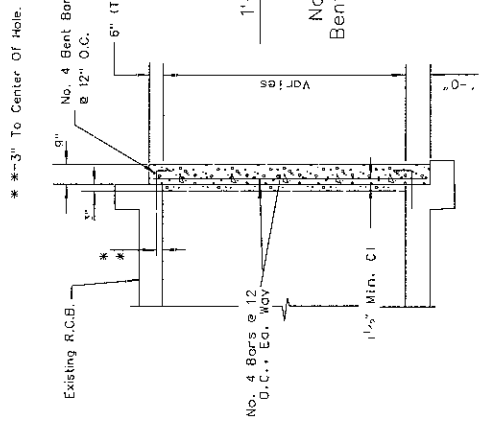
SCALE: NOT TO SCALE

FIGURE VII-F

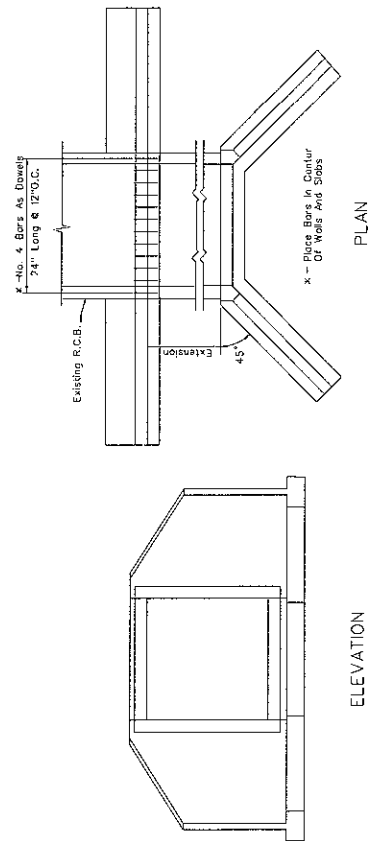
 DATE: 20 DEC 2005
 REV:

NOTES:

1. FOR GENERAL NOTES SEE SHEET B-20.1.1.
2. DOWEL HOLES SHALL BE DRILLED 12" INTO EXISTING CONCRETE. DIAMETER OF HOLE SHALL BE $\frac{1}{4}$ " LARGER THAN DIAMETER OF BAR. HOLE MAY BE INCLINED NO MORE THAN 5° OFF THE HORIZONTAL. DOWELS SHALL BE EPOXYED INTO CLEAN HOLES. EPOXY SHALL CONFORM TO THE REQUIREMENT OF SECTION 728 OF THE STANDARD SPECIFICATIONS.

**PART LONGITUDINAL SECTION****SECTION**

METHOD OF PLUGGING R.C.B.
NOTE: Width And Height Varies.

**ELEVATION****PLAN****R.C.B. CULVERT EXTENSION**

NEVADA DEPARTMENT OF TRANSPORTATION	
METHOD OF EXTENDING R.C.B. CULVERTS	
Started Original On File B-20.1.1 (502)	REVISION
CHIEF BRIDGE ENGINEER	ADOPTED 11/20/05

RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH



Stanley Consultants INC

5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE VII-G

DATE: 20 DEC 2005
REV:

QUANTITIES SHOWN BELOW ARE FOR TWO HEADWALLS.

OVAL RCP SIZE W x H	OVAL RCP SOFT	SINGLE OVAL RCP				DOUBLE OVAL RCP			
		0° SKEW	15° SKEW	30° SKEW	45° SKEW	0° SKEW	15° SKEW	30° SKEW	45° SKEW
68"x43"	16.62	2.18	6.28	7.82	9.84	6.27	9.84	12.31	15.31
72"x48"	18.75	2.41	6.91	8.61	10.81	6.91	10.81	14.01	17.51
78"x54"	20.55	2.69	7.46	9.33	11.83	7.46	11.83	15.51	19.51
84"x60"	22.11	2.91	8.01	10.01	12.81	8.01	12.81	16.51	20.51
90"x66"	23.41	3.11	8.51	10.51	13.31	8.51	13.31	17.01	21.01
96"x72"	24.51	3.28	8.91	10.91	13.71	8.91	13.71	17.41	21.41
102"x78"	25.41	3.41	9.21	11.21	14.01	9.21	14.01	17.71	21.71
108"x84"	26.21	3.51	9.41	11.41	14.21	9.41	14.21	17.91	21.91
114"x90"	26.91	3.61	9.61	11.61	14.41	9.61	14.41	18.11	22.11
120"x96"	27.51	3.71	9.81	11.81	14.61	9.81	14.61	18.31	22.31
126"x102"	28.01	3.81	10.01	12.01	14.81	10.01	14.81	18.51	22.51
132"x108"	28.41	3.91	10.21	12.21	15.01	10.21	15.01	18.71	22.71
138"x114"	28.81	4.01	10.41	12.41	15.21	10.41	15.21	18.91	22.91
144"x120"	29.11	4.11	10.61	12.61	15.41	10.61	15.41	19.11	23.11
150"x126"	29.41	4.21	10.81	12.81	15.61	10.81	15.61	19.31	23.31
156"x132"	29.71	4.31	11.01	13.01	15.81	11.01	15.81	19.51	23.51
162"x138"	30.01	4.41	11.21	13.21	16.01	11.21	16.01	19.71	23.71
168"x144"	30.31	4.51	11.41	13.41	16.21	11.41	16.21	19.91	23.91
174"x150"	30.61	4.61	11.61	13.61	16.41	11.61	16.41	20.11	24.11
180"x156"	30.91	4.71	11.81	13.81	16.61	11.81	16.61	20.31	24.31
186"x162"	31.21	4.81	12.01	14.01	16.81	12.01	16.81	20.51	24.51
192"x168"	31.51	4.91	12.21	14.21	17.01	12.21	17.01	20.71	24.71
198"x174"	31.81	5.01	12.41	14.41	17.21	12.41	17.21	20.91	24.91
204"x180"	32.11	5.11	12.61	14.61	17.41	12.61	17.41	21.11	25.11
210"x186"	32.41	5.21	12.81	14.81	17.61	12.81	17.61	21.31	25.31
216"x192"	32.71	5.31	13.01	15.01	17.81	13.01	17.81	21.51	25.51
222"x198"	33.01	5.41	13.21	15.21	18.01	13.21	18.01	21.71	25.71
228"x204"	33.31	5.51	13.41	15.41	18.21	13.41	18.21	21.91	25.91
234"x210"	33.61	5.61	13.61	15.61	18.41	13.61	18.41	22.11	26.11
240"x216"	33.91	5.71	13.81	15.81	18.61	13.81	18.61	22.31	26.31
246"x222"	34.21	5.81	14.01	16.01	18.81	14.01	18.81	22.51	26.51
252"x228"	34.51	5.91	14.21	16.21	19.01	14.21	19.01	22.71	26.71
258"x234"	34.81	6.01	14.41	16.41	19.21	14.41	19.21	22.91	26.91
264"x240"	35.11	6.11	14.61	16.61	19.41	14.61	19.41	23.11	27.11
270"x246"	35.41	6.21	14.81	16.81	19.61	14.81	19.61	23.31	27.31
276"x252"	35.71	6.31	15.01	17.01	19.81	15.01	19.81	23.51	27.51
282"x258"	36.01	6.41	15.21	17.21	20.01	15.21	20.01	23.71	27.71
288"x264"	36.31	6.51	15.41	17.41	20.21	15.41	20.21	23.91	27.91
294"x270"	36.61	6.61	15.61	17.61	20.41	15.61	20.41	24.11	28.11
300"x276"	36.91	6.71	15.81	17.81	20.61	15.81	20.61	24.31	28.31
306"x282"	37.21	6.81	16.01	18.01	20.81	16.01	20.81	24.51	28.51
312"x288"	37.51	6.91	16.21	18.21	21.01	16.21	21.01	24.71	28.71
318"x294"	37.81	7.01	16.41	18.41	21.21	16.41	21.21	24.91	28.91
324"x300"	38.11	7.11	16.61	18.61	21.41	16.61	21.41	25.11	29.11
330"x306"	38.41	7.21	16.81	18.81	21.61	16.81	21.61	25.31	29.31
336"x312"	38.71	7.31	17.01	19.01	21.81	17.01	21.81	25.51	29.51
342"x318"	39.01	7.41	17.21	19.21	22.01	17.21	22.01	25.71	29.71
348"x324"	39.31	7.51	17.41	19.41	22.21	17.41	22.21	25.91	29.91
354"x330"	39.61	7.61	17.61	19.61	22.41	17.61	22.41	26.11	30.11
360"x336"	39.91	7.71	17.81	19.81	22.61	17.81	22.61	26.31	30.31
366"x342"	40.21	7.81	18.01	20.01	22.81	18.01	22.81	26.51	30.51
372"x348"	40.51	7.91	18.21	20.21	23.01	18.21	23.01	26.71	30.71
378"x354"	40.81	8.01	18.41	20.41	23.21	18.41	23.21	26.91	30.91
384"x360"	41.11	8.11	18.61	20.61	23.41	18.61	23.41	27.11	31.11
390"x366"	41.41	8.21	18.81	20.81	23.61	18.81	23.61	27.31	31.31
396"x372"	41.71	8.31	19.01	21.01	23.81	19.01	23.81	27.51	31.51
402"x378"	42.01	8.41	19.21	21.21	24.01	19.21	24.01	27.71	31.71
408"x384"	42.31	8.51	19.41	21.41	24.21	19.41	24.21	27.91	31.91
414"x390"	42.61	8.61	19.61	21.61	24.41	19.61	24.41	28.11	32.11
420"x396"	42.91	8.71	19.81	21.81	24.61	19.81	24.61	28.31	32.31
426"x402"	43.21	8.81	20.01	22.01	24.81	20.01	24.81	28.51	32.51
432"x408"	43.51	8.91	20.21	22.21	25.01	20.21	25.01	28.71	32.71
438"x414"	43.81	9.01	20.41	22.41	25.21	20.41	25.21	28.91	32.91
444"x420"	44.11	9.11	20.61	22.61	25.41	20.61	25.41	29.11	33.11
450"x426"	44.41	9.21	20.81	22.81	25.61	20.81	25.61	29.31	33.31
456"x432"	44.71	9.31	21.01	23.01	25.81	21.01	25.81	29.51	33.51
462"x438"	45.01	9.41	21.21	23.21	26.01	21.21	26.01	29.71	33.71
468"x444"	45.31	9.51	21.41	23.41	26.21	21.41	26.21	29.91	33.91
474"x450"	45.61	9.61	21.61	23.61	26.41	21.61	26.41	30.11	34.11
480"x456"	45.91	9.71	21.81	23.81	26.61	21.81	26.61	30.31	34.31
486"x462"	46.21	9.81	22.01	24.01	26.81	22.01	26.81	30.51	34.51
492"x468"	46.51	9.91	22.21	24.21	27.01	22.21	27.01	30.71	34.71
498"x474"	46.81	10.01	22.41	24.41	27.21	22.41	27.21	30.91	34.91
504"x480"	47.11	10.11	22.61	24.61	27.41	22.61	27.41	31.11	35.11
510"x486"	47.41	10.21	22.81	24.81	27.61	22.81	27.61	31.31	35.31
516"x492"	47.71	10.31	23.01	25.01	27.81	23.01	27.81	31.51	35.51
522"x498"	48.01	10.41	23.21	25.21	28.01	23.21	28.01	31.71	35.71
528"x504"	48.31	10.51	23.41	25.41	28.21	23.41	28.21	31.91	35.91
534"x510"	48.61	10.61	23.61	25.61	28.41	23.61	28.41	32.11	36.11
540"x516"	48.91	10.71	23.81	25.81	28.61	23.81	28.61	32.31	36.31
546"x522"	49.21	10.81	24.01	26.01	28.81	24.01	28.81	32.51	36.51
552"x528"	49.51	10.91	24.21	26.21	29.01	24.21	29.01	32.71	36.71
558"x534"	49.81	11.01	24.41	26.41	29.21	24.41	29.21	32.91	36.91
564"x540"	50.11	11.11	24.61	26.61	29.41	24.61	29.41	33.11	37.11
570"x546"	50.41	11.21	24.81	26.81	29.61	24.81	29.61	33.31	37.31
576"x552"	50.71	11.31	25.01	27.01	29.81	25.01	29.81	33.51	37.51
582"x558"	51.01	11.41	25.21	27.21	30.01	25.21	30.01	33.71	37.71
588"x564"	51.31	11.51	25.41	27.41	30.21	25.41	30.21	33.91	37.91
594"x570"	51.61	11.61	25.61	27.61	30.41	25.61	30.41	34.11	38.11
600"x576"	51.91	11.71	25.81	27.81	30.61	25.81	30.61	34.31	38.31
606"x582"	52.21	11.81	26.01	28.01	30.81	26.01	30.81	34.51	38.51
612"x588"	52.51	11.91	26.21	28.21	31.01	26.21	31.01	34.71	38.71
618"x594"	52.81	12.01	26.41	28.41	31.21	26.41	31.21	34.91	38.91
624"x600"	53.11	12.11	26.61	28.61	31.41	26.61	31.41	35.11	39.11
630"x606"	53.41	12.21	26.81	28.81	31.61	26.81	31.61	35.31	39.31
636"x612"	53.71	12.31	27.01	29.01	31.81	27.01	31.81	35.51	39.51
642"x618"	54.01	12.41	27.21	29.21	32.01	27.21	32.01	35.71	39.71
648"x624"	54.31	12.51	27.41	29.41	32.21	27.41	32.21	35.91	39.91
654"x630"	54.61	12.61	27.61	29.61	32.41	27.61	32.41	36.11	40.11
660"x636"	54.91	12.71	27.81	29.81	32.61	27.81	32.61	36.31	40.31
666"x642"	55.21	12.81	28.01	30.01	32.81	28.01	32.81	36.51	40.51
672"x648"	55.51	12.91	28.21	30.21	33.01	28.21	33.01	36.71	40.71
678"x654"	55.81	13.01	28.41	30.41	33.21	28.41	33.21	36.91	40.91
684"x660"	56.11	13.11	28.61	30.61	33.41	28.61	33.41	37.11	41.11
690"x666"	56.41	13.21	28.81	30.81	33.61	28.81	33.61	37.31	41.31
696"x672"	56.71	13.31	29.01	31.01	33.81	29.01	33.81	37.51	41.51
702"x678"	57.01	13.41	29.21	31.21	34.01	29.21	34.01	37.71	41.71
708"x684"	57.31	13.51	29.41	31.41	34.21	29.41	34.21	37.91	41.91
714"x690"	57.61	13.61	29.61	31.61	34.41	29.61	34.41	38.11	42.11
720"x696"	57.91	13.71	29.81	31.81	34.61	29.81	34.61	38.31	42.31
726"x702"	58.21	13.81	30.01	32.01	34.81	30.01	34.81	38.51	42.51
732"x708"	58.51	13.91	30.21	32.21	35.01	30.21	35.01	38.71	42.71

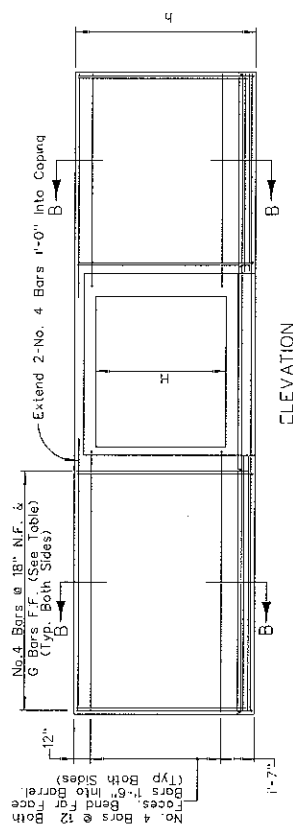
DATE: 20 DEC 2005
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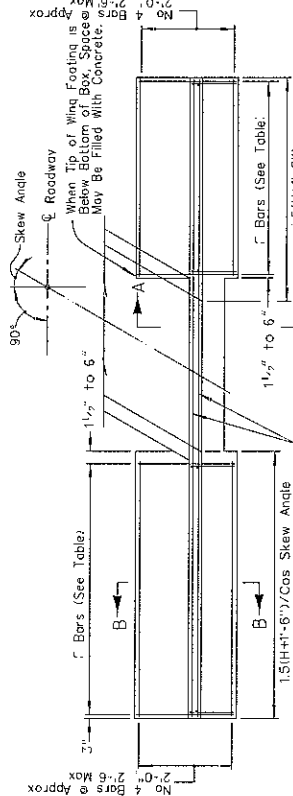
TABLE

	T = INCHES	G-BARS		J-BARS	
	H = HEIGHT	SIZE NO.	SPACE IN.	SIZE NO.	SPACE IN.
3	8	8	9 1/2	4	12
4	8	8	9 1/2	4	12
5	9	9	9 1/2	4	11
6	10	7	10	4	11
7	12	7	10	4	11
8	13	7	10	4	11
9	14	7	10	4	11
10	16	6	12	5	12
11	18	6	12	5	12
12	20	6	12	5	12
13	22	6	12	5	12
14	24	6	12	5	12
15	26	6	12	5	12
16	28	6	12	5	12
17	30	6	12	5	12
18	32	6	12	5	12
19	34	6	12	5	12
20	36	6	12	5	12
21	38	6	12	5	12
22	40	6	12	5	12
23	42	6	12	5	12
24	44	6	12	5	12
25	46	6	12	5	12
26	48	6	12	5	12
27	50	6	12	5	12
28	52	6	12	5	12
29	54	6	12	5	12
30	56	6	12	5	12
31	58	6	12	5	12
32	60	6	12	5	12
33	62	6	12	5	12
34	64	6	12	5	12
35	66	6	12	5	12
36	68	6	12	5	12
37	70	6	12	5	12
38	72	6	12	5	12
39	74	6	12	5	12
40	76	6	12	5	12
41	78	6	12	5	12
42	80	6	12	5	12
43	82	6	12	5	12
44	84	6	12	5	12
45	86	6	12	5	12
46	88	6	12	5	12
47	90	6	12	5	12
48	92	6	12	5	12
49	94	6	12	5	12
50	96	6	12	5	12
51	98	6	12	5	12
52	100	6	12	5	12
53	102	6	12	5	12
54	104	6	12	5	12
55	106	6	12	5	12
56	108	6	12	5	12
57	110	6	12	5	12
58	112	6	12	5	12
59	114	6	12	5	12
60	116	6	12	5	12
61	118	6	12	5	12
62	120	6	12	5	12
63	122	6	12	5	12
64	124	6	12	5	12
65	126	6	12	5	12
66	128	6	12	5	12
67	130	6	12	5	12
68	132	6	12	5	12
69	134	6	12	5	12
70	136	6	12	5	12
71	138	6	12	5	12
72	140	6	12	5	12
73	142	6	12	5	12
74	144	6	12	5	12
75	146	6	12	5	12
76	148	6	12	5	12
77	150	6	12	5	12

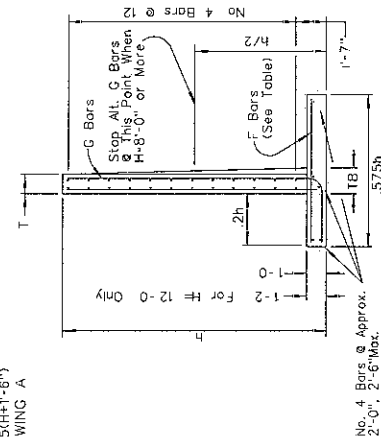
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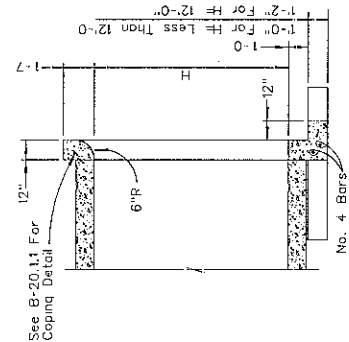
ELEVATION



PLAN



No. 4 Bars @ App.
2'-0", 2'-6" Max.



SECTION A-A

SECTION B-B

SHEET 1 OF 2

CHIEF BRIDGE ENGINEER	ADAPYED 11/70	REVISION 1/05
-----------------------	------------------	------------------

NEVADA DEPARTMENT OF TRANSPORTATION

RCB CULVERTS
TYPE II HEADWALLS

SCALE: NOT TO SCALE

FIGURE VII-N

DATE: 20 DEC 2005
REV:



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[illegible]

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SCALE: NOT TO SCALE

FIGURE VII-O

DATE: 20 DEC 2005
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TABLE 1

SPAN	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'	24'	25'	26'	27'	28'	29'	30'
MAXIMUM EARTH COVER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
MINIMUM EARTH COVER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
SPACING	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CONCRETE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
REINFORCEMENT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

NOTES:

- FOR BOXES WITH SPAN OR HEIGHT LESS THAN ANY OF THOSE SHOWN IN TABLE, USE NEXT GREATER SIZE BOX CONCRETE DIMENSIONS AND REINFORCEMENT. MAKE NECESSARY CHANGES IN BAR LENGTHS AND AMOUNTS.
- FOR BOXES WITH SPAN OR HEIGHT OR COVER GREATER THAN THOSE SHOWN IN TABLE, A SPECIAL DESIGN IS REQUIRED.
- QUANTITIES ARE APPROXIMATE AND FOR DESIGN PURPOSES ONLY.
- IT IS PERMISSIBLE TO ELIMINATE THE 180° HOOKS ON EVERY OTHER BAR.
- 180° BARS ARE AT HALF SPACING.
- 180° BARS ARE AT HALF SPACING.
- PROVIDE RAINING NOTCH WHEN TOP IS EXPOSED AND WHERE P.C.C. PAVEMENT OR APPROACH SLAB IS USED. ADJUST THE QUANTITIES.
- WHEN TOP IS EXPOSED, THE TOP SLAB CONCRETE SHALL BE "FA", 18-4300 PSI, OR "A", 18-4000 PSI, AS DETERMINED BY THE ENGINEER. IF "EA" CONCRETE IS TO BE USED, THE TOP SLAB REINFORCING STEEL SHALL HAVE AN EPOXY COATING.

TABLE 2

SPAN	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'	24'	25'	26'	27'	28'	29'	30'
MAXIMUM EARTH COVER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
MINIMUM EARTH COVER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
SPACING	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CONCRETE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
REINFORCEMENT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

NOTES:

- FOR BOXES WITH SPAN OR HEIGHT LESS THAN ANY OF THOSE SHOWN IN TABLE, USE NEXT GREATER SIZE BOX CONCRETE DIMENSIONS AND REINFORCEMENT. MAKE NECESSARY CHANGES IN BAR LENGTHS AND AMOUNTS.
- FOR BOXES WITH SPAN OR HEIGHT OR COVER GREATER THAN THOSE SHOWN IN TABLE, A SPECIAL DESIGN IS REQUIRED.
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- 180° BARS ARE AT HALF SPACING.
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- PROVIDE RAINING NOTCH WHEN TOP IS EXPOSED AND WHERE P.C.C. PAVEMENT OR APPROACH SLAB IS USED. ADJUST THE QUANTITIES.
- WHEN TOP IS EXPOSED, THE TOP SLAB CONCRETE SHALL BE "FA", 18-4300 PSI, OR "A", 18-4000 PSI, AS DETERMINED BY THE ENGINEER. IF "EA" CONCRETE IS TO BE USED, THE TOP SLAB REINFORCING STEEL SHALL HAVE AN EPOXY COATING.

TABLE 3

SPAN	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'	24'	25'	26'	27'	28'	29
------	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

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GOLDEN VALLEY RANCH**

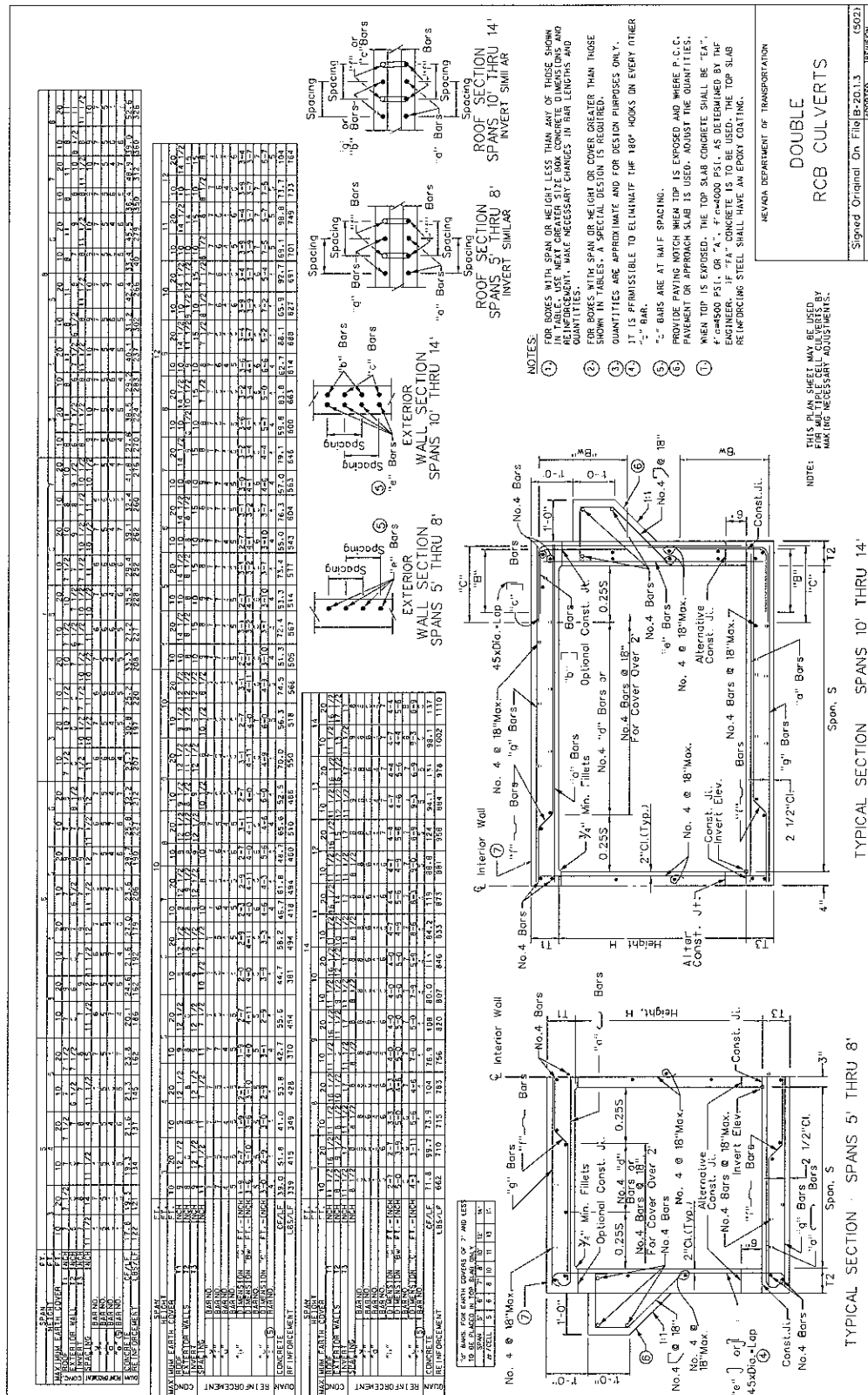


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FIGURE VII-P

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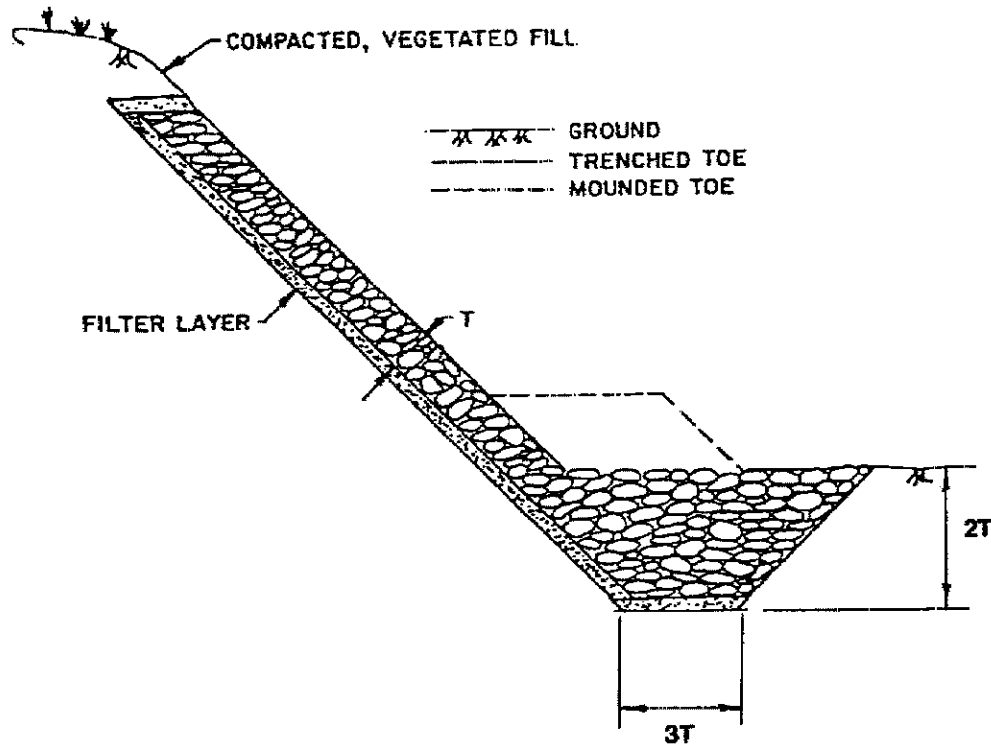
FIGURE VII-Q

DATE: 20 DEC 2005
REV:

DATE: 20 DEC 2005
REV:

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

TOE PROTECTION



(After Blodgett, 1986)

Revision	Date

REFERENCE:

FIGURE 705D

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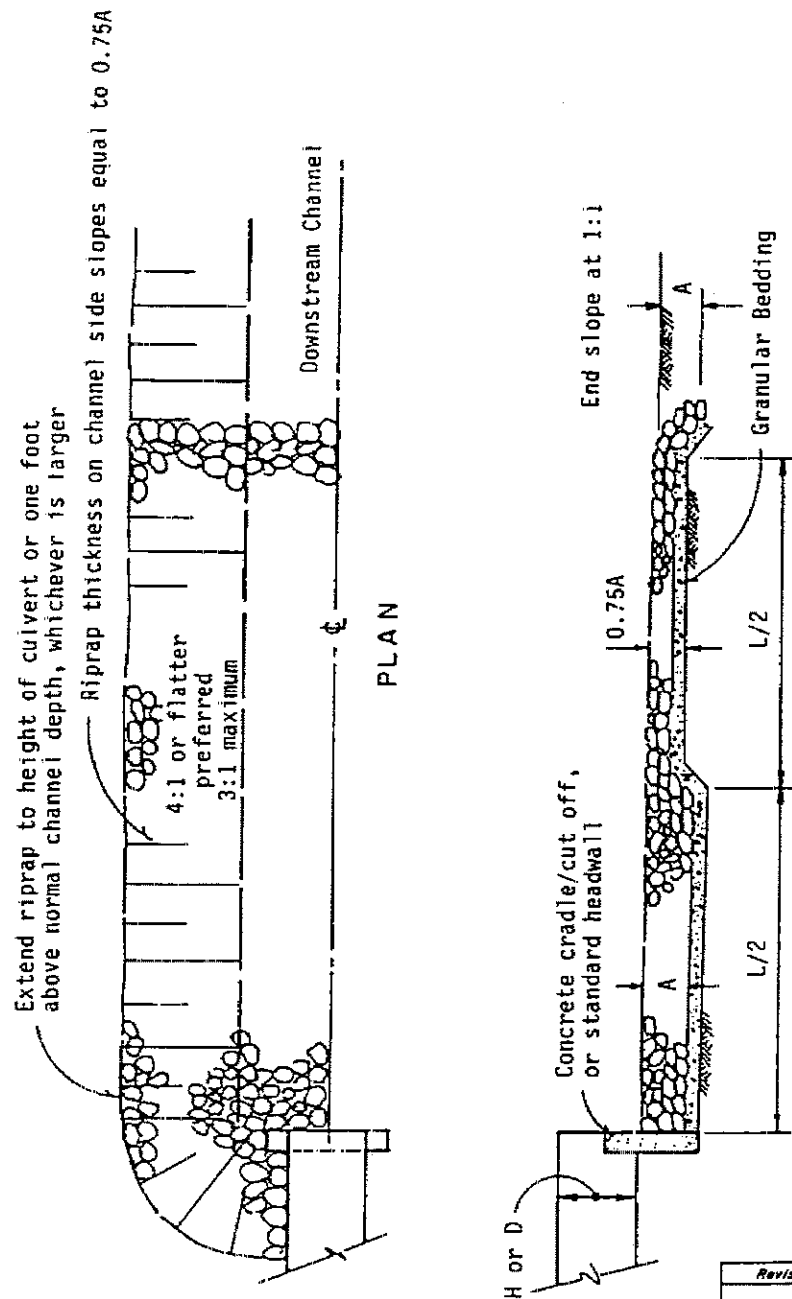
SCALE: NOT TO SCALE

FIGURE VII-S

DATE: 20 DEC 2005
REV:

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

CONDUIT OUTLET EROSION PROTECTION

WRC
ENGINEERING

REFERENCE:

USDCM, DRCOG, March 1969 (with modifications)

FIGURE 711

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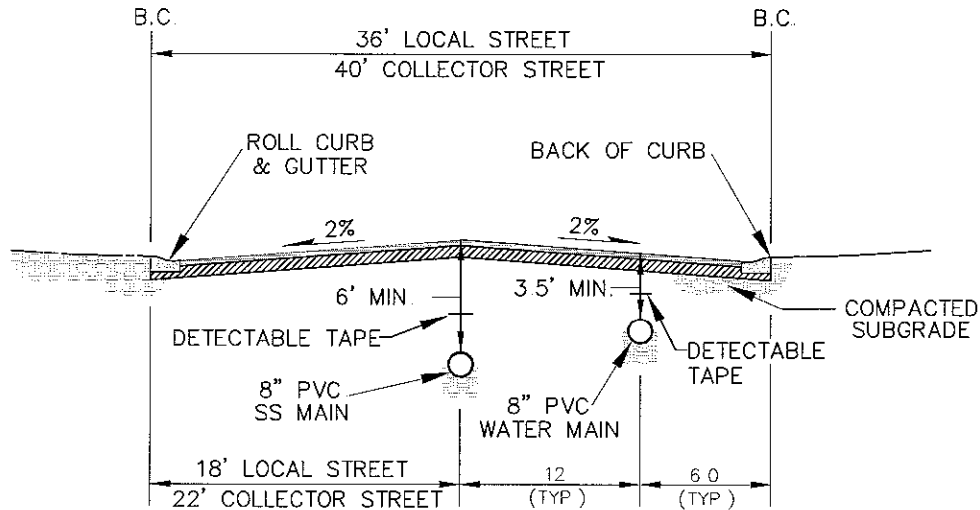
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FIGURE VII-T

DATE: 20 DEC 2005
REV:



TYPICAL WATER AND SS MAIN LINE SECTION

N.T.S. NOTE:
 INSTALL M.A.G. STANDARD DETECTABLE LOCATOR TAPE OR
 PLASTIC COATED (BLUE FOR WATER AND GREEN
 FOR SEWER) #8 WIRE FOR ALL WATER AND SEWER LINES

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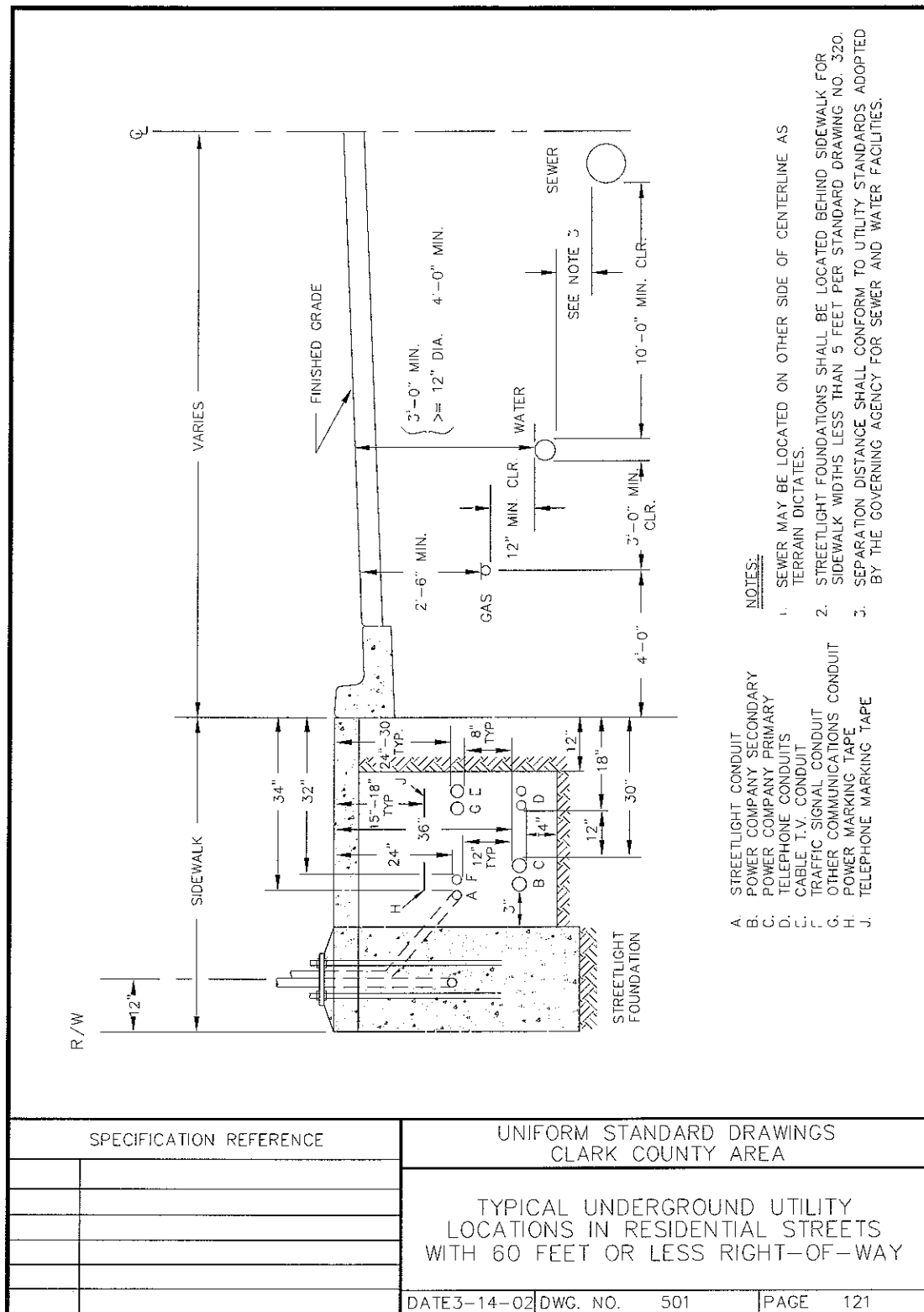


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FIGURE VIII-A-1

DATE: 20 DEC 2005
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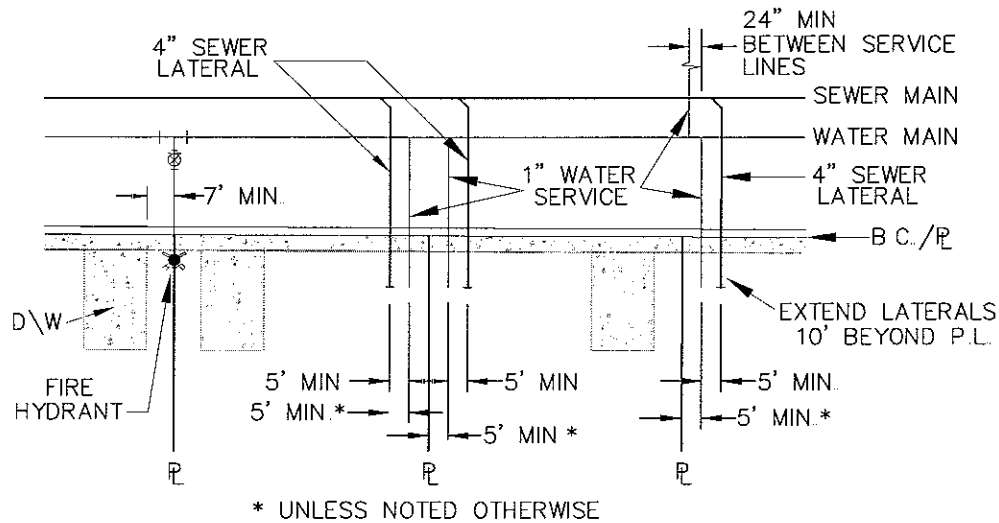
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FIGURE VIII-A-2

DATE: 20 DEC 2005
REV:



TYPICAL WATER AND SS LATERALS
N T S.

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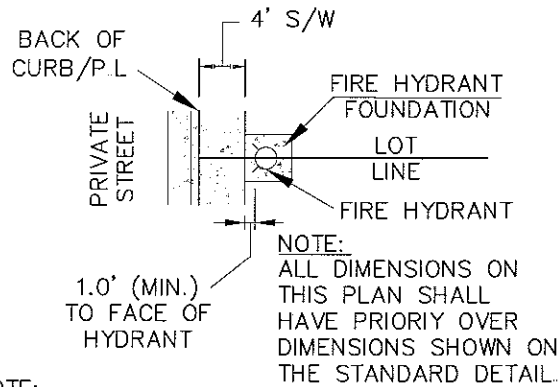


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FIGURE VIII-A-3

DATE: 20 DEC 2005
REV:



NOTE:
IN LOCATIONS WHERE FIRE HYDRANT IS NOT ADJACENT TO A SIDEWALK, FACE OF HYDRANT TO BE 3' FROM BACK OF CURB.

FIRE HYDRANT LOCATION

N.T.S.

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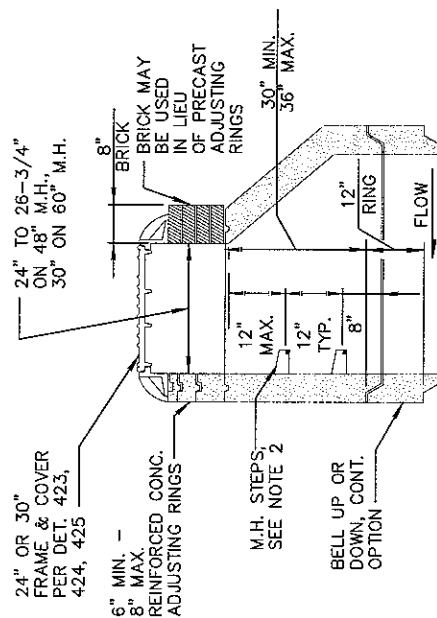


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SCALE: NOT TO SCALE

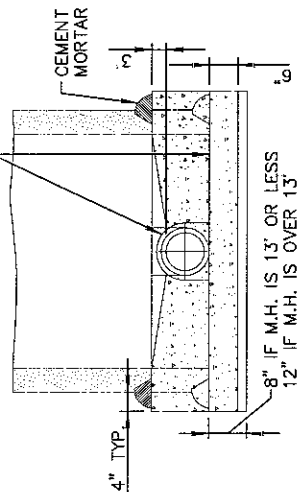
FIGURE VIII-A-4

DATE: 20 DEC 2005
REV:



TYPE 'A' TOP
(PRE-CAST ECCENTRIC CONICAL TOP M.H.)

** ALTERNATE BASE
WITH KNOCKOUTS FOR PIPES.
CLEARANCE AROUND PIPES
1" MIN. - 3" MAX.
EXCEPT LOWER CORNERS



NOTES:

1. PRE-CAST, REINFORCED M.H. SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH A.S.T.M. C-478 EXCEPT AS MODIFIED HEREIN.
2. M.H. STEPS SHALL BE INSTALLED AT SITE OF M.H. SECTION MANUFACTURE. MINIMUM CLEARANCE EACH SIDE OF M.H. LEG SHALL BE 1". STEPS SHALL BE MOUNTED WITH 2 TO 1 SAND/CEMENT DRY PACK MORTAR. (SEE DET. 428 FOR M.H. STEP.) STEPS REQUIRED IN 48" DIAMETER MANHOLE. STEPS NOT REQUIRED IN 60" DIAMETER MANHOLE.
3. USE LOW ALKALI CEMENT ONLY

DETAIL NO.
420-1

STANDARD DETAIL
ENGLISH



PRE-CAST CONCRETE SEWER MANHOLE

REVISED
01-01-2001

DETAIL NO.
420-1

RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH



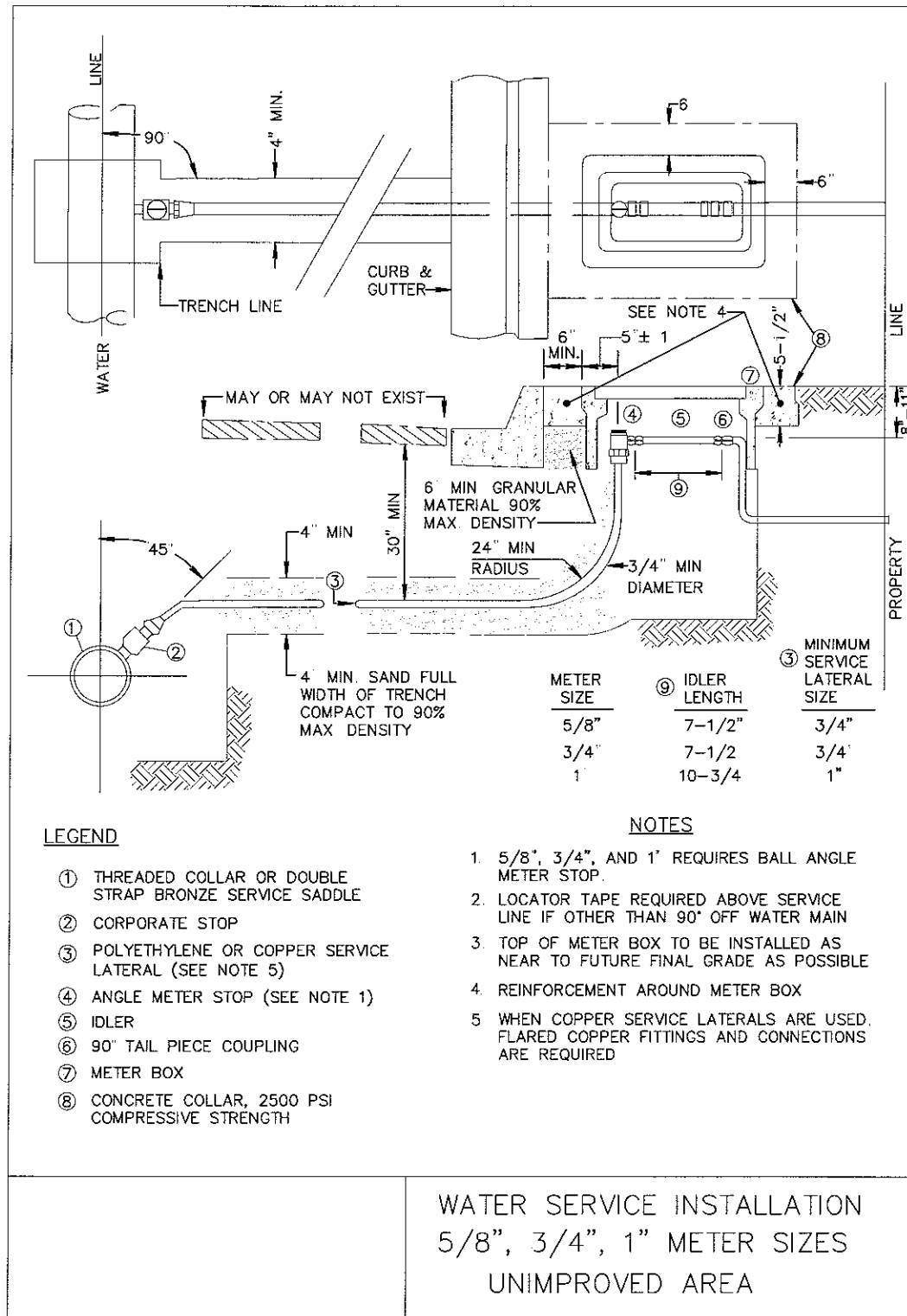
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SCALE: NOT TO SCALE

FIGURE VIII-B

DATE: 20 DEC 2005
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SCALE: NOT TO SCALE

FIGURE VIII-C

DATE: 20 DEC 2005
 REV: